

Db 281 CNLSADKWFJTLW 293

RESULT 6

PCT-US95-16435-9
; Sequence 9, Application PC/TUS9516435
; GENERAL INFORMATION:
; APPLICANT: The Johns Hopkins University School of Medicine
; TITLE OF INVENTION: NOVEL PROTEIN TYROSINE KINASE, JAK3
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/16435
; FILING DATE: 15-DEC-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07265/033W01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US95-16435-9

Query Match 40.4%; Score 44; DB 5; Length 498;
Best Local Similarity 46.2%; Pred. No. 1.5e+02;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 4 CNEFKNQMFQNVW 16
Db 281 CNLSADKWFJTLW 293

RESULT 7

US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRN
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-17516

Query Match 40.4%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WVCNLFKN 9
Db 54 WICNLFKN 61

RESULT 8

US-08-671-978A-7
; Sequence 7, Application US/08671978A
; Patent No. 5959093
; GENERAL INFORMATION:
; APPLICANT: Saif, Linda J.
; APPLICANT: Parwani, Anil
; APPLICANT: Kim, Monyong
; TITLE OF INVENTION: ROTAVIRUS GENES
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CALFEE, HALTER & GRISWOLD
; STREET: 800 SUPERIOR AVENUE, SUITE 1400
; CITY: CLEVELAND
; STATE: OHIO
; COUNTRY: USA
; ZIP: 44114
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/671,978A
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: GOLRICK, MARY E
; REGISTRATION NUMBER: 34,829
; REFERENCE/DOCKET NUMBER: 22727/00133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (216) 622-8200
; TELEFAX: (216) 241-0816
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-671-978A-7

Query Match 39.4%; Score 43; DB 2; Length 326;
Best Local Similarity 50.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 3 VCNLFKNQMFQCN 14
Db 155 LANLINENWLCN 166

RESULT 9

US-08-194-560-2
; Sequence 2, Application US/08194560
; Patent No. 6255062
; GENERAL INFORMATION:
; APPLICANT: Campbell, Judith L.
; APPLICANT: Budd, Martin E.
; TITLE OF INVENTION: B-Type DNA Polymerases
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert

STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/194,560
FILING DATE: 14-FEB-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Titecartin, Richard F.
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-59515/RFT/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 582 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-194-560-2

Query Match 38.5%; Score 42; DB 3; Length 582;
Best Local Similarity 33.3%; Pred. No. 3.4e+02;
Matches 5; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

OY 1 DWVCNLFNQWPCNV 15
DB 322 DWLCMSRNECFTHL 336

RESULT 10
US-08-265-967C-3
Sequence 3, Application US/08265967C
Patent No. 6476200
GENERAL INFORMATION:
APPLICANT: SABATINI, DAVID M.
APPLICANT: ERDJUMENT-BROWAGE, HEDIYE
APPLICANT: LUI, MARY
APPLICANT: TEMPEST, PAUL
APPLICANT: SNYDER, SOLOMON H.
TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER & ALLEGRETTI, LTD
STREET: 1001 G STREET, N.W., 11TH FLOOR
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/265,967C
FILING DATE: 27-JUN-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.46363
TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2474 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Saccharomyces cerevisiae
US-08-265-967C-3

Query Match 38.5%; Score 42; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 1.5e+03;
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 5 NLFXNQWPCN 14
DB 1223 NLKNWYCS 1232

RESULT 11
US-08-305-790B-4
Sequence 4, Application US/08305790B
Patent No. 6492106
GENERAL INFORMATION:
APPLICANT: SABATINI, DAVID M.
APPLICANT: ERDJUMENT-BROWAGE, HEDIYE
APPLICANT: LUI, MARY
APPLICANT: TEMPEST, PAUL
APPLICANT: SNYDER, SOLOMON H.
TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER & ALLEGRETTI, LTD
STREET: 1001 G STREET, N.W., 11TH FLOOR
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/305,790B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/265,967
FILING DATE: 27-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.47225
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2474 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Saccharomyces cerevisiae
US-08-305-790B-4

Query Match 38.5%; Score 42; DB 4; Length 2474;

APPLICATION NUMBER: US/08/335,844A
FILING DATE: 09-JAN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB PCT/GB93/00943
FILING DATE: 06-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9209936
FILING DATE: 08-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: WALKER, Barbara W.
REGISTRATION NUMBER: 35,400
REFERENCE/DOCKET NUMBER: 1181-223A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)783-6040
TELEFAX: (202)783-6031
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 977 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-335-844A-22

Query Match 37.6%; Score 41; DB 3; Length 977;
Best Local Similarity 40.0%; Pred. No. 7.8e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

OY 2 WVCNLFKNQWFCNVW 16
Db 392 WFGNIVTMKWMNDLM 406

Search Completed: September 8, 2004, 12:58:34
Job time : 13.2 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-118
Perfect score: 101
Sequence: 1 DWCEFEKGGWTCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
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15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
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17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	101	100.0	16	11	US-09-825-517A-118
2	92	91.1	16	11	US-09-825-517A-133
3	87	86.1	16	11	US-09-825-517A-88
4	86	85.1	16	11	US-09-825-517A-8
5	86	85.1	16	11	US-09-825-517A-60
6	83	82.2	16	11	US-09-825-517A-135
7	82	81.2	16	11	US-09-825-517A-67
8	82	81.2	16	11	US-09-825-517A-76
9	81	80.2	16	11	US-09-825-517A-80
10	80	79.2	16	11	US-09-825-517A-147
11	79	78.2	16	11	US-09-825-517A-49
12	79	78.2	16	11	US-09-825-517A-137
13	79	78.2	16	11	US-09-825-517A-151
14	78	77.2	16	11	US-09-825-517A-5
15	78	77.2	16	11	US-09-825-517A-75

16	78	77.2	16	11	US-09-825-517A-104	Sequence 104, App
17	78	77.2 <td>16<th>11</th><th>US-09-825-517A-150</th><th>Sequence 150, App</th></td>	16 <th>11</th> <th>US-09-825-517A-150</th> <th>Sequence 150, App</th>	11	US-09-825-517A-150	Sequence 150, App
18	78	77.2 <td>27<th>11</th><th>US-09-825-517A-25</th><th>Sequence 25, App1</th></td>	27 <th>11</th> <th>US-09-825-517A-25</th> <th>Sequence 25, App1</th>	11	US-09-825-517A-25	Sequence 25, App1
19	77	76.2 <td>16<th>11</th><th>US-09-825-517A-59</th><th>Sequence 59, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-59</th> <th>Sequence 59, App1</th>	11	US-09-825-517A-59	Sequence 59, App1
20	77	76.2 <td>16<th>11</th><th>US-09-825-517A-117</th><th>Sequence 117, App</th></td>	16 <th>11</th> <th>US-09-825-517A-117</th> <th>Sequence 117, App</th>	11	US-09-825-517A-117	Sequence 117, App
21	77	76.2 <td>16<th>11</th><th>US-09-825-517A-139</th><th>Sequence 139, App</th></td>	16 <th>11</th> <th>US-09-825-517A-139</th> <th>Sequence 139, App</th>	11	US-09-825-517A-139	Sequence 139, App
22	76	75.2 <td>16<th>11</th><th>US-09-825-517A-70</th><th>Sequence 70, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-70</th> <th>Sequence 70, App1</th>	11	US-09-825-517A-70	Sequence 70, App1
23	76	75.2 <td>16<th>11</th><th>US-09-825-517A-107</th><th>Sequence 107, App</th></td>	16 <th>11</th> <th>US-09-825-517A-107</th> <th>Sequence 107, App</th>	11	US-09-825-517A-107	Sequence 107, App
24	75	74.3 <td>16<th>11</th><th>US-09-825-517A-86</th><th>Sequence 86, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-86</th> <th>Sequence 86, App1</th>	11	US-09-825-517A-86	Sequence 86, App1
25	75	74.3 <td>16<th>11</th><th>US-09-825-517A-95</th><th>Sequence 95, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-95</th> <th>Sequence 95, App1</th>	11	US-09-825-517A-95	Sequence 95, App1
26	75	74.3 <td>16<th>11</th><th>US-09-825-517A-113</th><th>Sequence 113, App</th></td>	16 <th>11</th> <th>US-09-825-517A-113</th> <th>Sequence 113, App</th>	11	US-09-825-517A-113	Sequence 113, App
27	75	74.3 <td>16<th>11</th><th>US-09-825-517A-116</th><th>Sequence 116, App</th></td>	16 <th>11</th> <th>US-09-825-517A-116</th> <th>Sequence 116, App</th>	11	US-09-825-517A-116	Sequence 116, App
28	75	74.3 <td>16<th>11</th><th>US-09-825-517A-126</th><th>Sequence 126, App</th></td>	16 <th>11</th> <th>US-09-825-517A-126</th> <th>Sequence 126, App</th>	11	US-09-825-517A-126	Sequence 126, App
29	74	73.3 <td>16<th>11</th><th>US-09-825-517A-65</th><th>Sequence 65, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-65</th> <th>Sequence 65, App1</th>	11	US-09-825-517A-65	Sequence 65, App1
30	74	73.3 <td>16<th>11</th><th>US-09-825-517A-101</th><th>Sequence 101, App</th></td>	16 <th>11</th> <th>US-09-825-517A-101</th> <th>Sequence 101, App</th>	11	US-09-825-517A-101	Sequence 101, App
31	74	73.3 <td>16<th>11</th><th>US-09-825-517A-110</th><th>Sequence 110, App</th></td>	16 <th>11</th> <th>US-09-825-517A-110</th> <th>Sequence 110, App</th>	11	US-09-825-517A-110	Sequence 110, App
32	74	73.3 <td>16<th>11</th><th>US-09-825-517A-114</th><th>Sequence 114, App</th></td>	16 <th>11</th> <th>US-09-825-517A-114</th> <th>Sequence 114, App</th>	11	US-09-825-517A-114	Sequence 114, App
33	74	73.3 <td>16<th>11</th><th>US-09-825-517A-125</th><th>Sequence 125, App</th></td>	16 <th>11</th> <th>US-09-825-517A-125</th> <th>Sequence 125, App</th>	11	US-09-825-517A-125	Sequence 125, App
34	74	73.3 <td>16<th>11</th><th>US-09-825-517A-127</th><th>Sequence 127, App</th></td>	16 <th>11</th> <th>US-09-825-517A-127</th> <th>Sequence 127, App</th>	11	US-09-825-517A-127	Sequence 127, App
35	74	73.3 <td>16<th>11</th><th>US-09-825-517A-140</th><th>Sequence 140, App</th></td>	16 <th>11</th> <th>US-09-825-517A-140</th> <th>Sequence 140, App</th>	11	US-09-825-517A-140	Sequence 140, App
36	74	73.3 <td>16<th>11</th><th>US-09-825-517A-142</th><th>Sequence 142, App</th></td>	16 <th>11</th> <th>US-09-825-517A-142</th> <th>Sequence 142, App</th>	11	US-09-825-517A-142	Sequence 142, App
37	73	72.3 <td>16<th>11</th><th>US-09-825-517A-55</th><th>Sequence 55, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-55</th> <th>Sequence 55, App1</th>	11	US-09-825-517A-55	Sequence 55, App1
38	73	72.3 <td>16<th>11</th><th>US-09-825-517A-78</th><th>Sequence 78, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-78</th> <th>Sequence 78, App1</th>	11	US-09-825-517A-78	Sequence 78, App1
39	73	72.3 <td>16<th>11</th><th>US-09-825-517A-112</th><th>Sequence 112, App</th></td>	16 <th>11</th> <th>US-09-825-517A-112</th> <th>Sequence 112, App</th>	11	US-09-825-517A-112	Sequence 112, App
40	73	72.3 <td>16<th>11</th><th>US-09-825-517A-122</th><th>Sequence 122, App</th></td>	16 <th>11</th> <th>US-09-825-517A-122</th> <th>Sequence 122, App</th>	11	US-09-825-517A-122	Sequence 122, App
41	73	72.3 <td>16<th>11</th><th>US-09-825-517A-140</th><th>Sequence 140, App</th></td>	16 <th>11</th> <th>US-09-825-517A-140</th> <th>Sequence 140, App</th>	11	US-09-825-517A-140	Sequence 140, App
42	72	71.3 <td>16<th>11</th><th>US-09-825-517A-72</th><th>Sequence 72, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-72</th> <th>Sequence 72, App1</th>	11	US-09-825-517A-72	Sequence 72, App1
43	72	71.3 <td>16<th>11</th><th>US-09-825-517A-90</th><th>Sequence 90, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-90</th> <th>Sequence 90, App1</th>	11	US-09-825-517A-90	Sequence 90, App1
44	72	71.3 <td>16<th>11</th><th>US-09-825-517A-130</th><th>Sequence 130, App</th></td>	16 <th>11</th> <th>US-09-825-517A-130</th> <th>Sequence 130, App</th>	11	US-09-825-517A-130	Sequence 130, App
45	71	70.3 <td>16<th>11</th><th>US-09-825-517A-18</th><th>Sequence 18, App1</th></td>	16 <th>11</th> <th>US-09-825-517A-18</th> <th>Sequence 18, App1</th>	11	US-09-825-517A-18	Sequence 18, App1

ALIGNMENTS

RESULT 1
US-09-825-517A-118
; Sequence 118, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 118
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-118

Query Match 100.0%; Score 101; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 6.3e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 DWCEFEKGGWTCNVL 16
1 DWCEFEKGGWTCNVL 16

RESULT 2
US-09-825-517A-133
; Sequence 133, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 133
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-133

Query Match 91.1%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFEKGQWTCNVL 16
DB 1 DWVCEFDKQWNCNVL 16

RESULT 3
US-09-825-517A-88
Sequence 88, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 88
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-88

Query Match 86.1%; Score 87; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 6.9e-06;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFEKGQWTCNVL 16
DB 1 DWVCEFDKQWNCNVL 16

RESULT 4
US-09-825-517A-60
Sequence 60, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24

PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 60
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-60

Query Match 85.1%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.6e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFEKGQWTCNVL 16
DB 1 DWVCEFDKQWNCNPL 16

RESULT 5
US-09-825-517A-82
Sequence 82, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 82
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-82

Query Match 85.1%; Score 86; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9.6e-06;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFEKGQWTCNVL 16
DB 1 DWVCEYEDQWNCNVL 16

RESULT 6
US-09-825-517A-135
Sequence 135, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 135
LENGTH: 16
TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135

Query Match          82.2%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEFEKGQWTCNVL 16
        |||||:|||||
Db       1 DWVCEFDKLQWVCNVL 16

RESULT 7
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

Query Match          81.2%; Score 82; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.7e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWVCEFEKGQWTCNVL 16
        |||||:|||||
Db       1 DWVCEFYKSQWMCNVL 16

RESULT 8
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match          81.2%; Score 82; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.7e-05;
```

```
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEFEKGQWTCNVL 16
        |||||:|||||
Db       1 DWVCEFFKQWMCNVL 16

RESULT 9
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match          80.2%; Score 81; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.1e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWVCEFEKGQWTCNVL 16
        |||||:|||||
Db       1 DWVCEFIKQWMCNVL 16

RESULT 10
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match          79.2%; Score 80; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.1e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWVCEFEKGQWTCNVL 16
        |||||:|||||
Db       1 DWVCEFIKSQWMCNVL 16
```

```
RESULT 11
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWYCEFEKQWTCNVL 16
DB 1 DWYCEFLKQWQACNVL 16

RESULT 12
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match          78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.0001;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWYCEFEKQWTCNVL 16
DB 1 DWYCEFFKQWTCNVL 16

RESULT 13
US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

Query Match          78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWYCEFEKQWTCNVL 16
DB 1 DWYCEFLKQWQACNVL 16
```

```
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

Query Match          78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWYCEFEKQWTCNVL 16
DB 1 DWYCEFLKQWQACNVL 16

RESULT 14
US-09-825-517A-5
; Sequence 5, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-5

Query Match          77.2%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00014;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWYCEFEKQWTCNVL 16
DB 1 DWYCEKMKQWTCNVL 16

RESULT 15
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-75

Query Match          77.2%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00014;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWYCEFEKQWTCNVL 16
DB 1 DWYCEKMKQWTCNVL 16
```

```

; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

```

```

Query Match      77.2%; Score 78; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWVCEPFBKGQWTCNVL 16
          |||||  |||||
Db      1 DWVCEPFBKGQWTCNVL 16

```

Search completed: September 8, 2004, 14:25:06
 Job time : 44.3 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds

(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-118
Sequence: 101
1 DWCEFEKGQWTCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/2/1aa/5B COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PCTUS COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	53	52.5	176	4 US-09-134-000C-6119	Sequence 6119, Ap
2	44	43.6	222	4 US-09-328-352-6740	Sequence 6740, Ap
3	44	43.6	342	4 US-09-328-352-6740	Sequence 4605, Ap
4	44	43.6	617	1 US-08-191-866D-58	Sequence 58, Appl
5	44	43.6	617	2 US-08-185-949B-58	Sequence 58, Appl
6	44	43.6	1456	4 US-09-976-594-168	Sequence 168, App
7	43	42.6	71	4 US-09-621-976-5666	Sequence 5666, Ap
8	43	42.6	789	4 US-09-390-234-16	Sequence 16, Appl
9	43	42.6	789	4 US-09-603-311-16	Sequence 16, Appl
10	42	41.6	333	3 US-08-988-111-3	Sequence 3, Appl
11	42	41.6	333	3 US-09-387-922-3	Sequence 3, Appl
12	42	41.6	360	4 US-09-417-039-4	Sequence 5, Appl
13	41	40.6	339	1 US-08-414-926A-5	Sequence 5, Appl
14	41	40.6	339	2 US-08-926-922-5	Sequence 5, Appl
15	41	40.6	339	3 US-09-253-682-5	Sequence 5, Appl
16	41	40.6	339	3 US-09-527-657-5	Sequence 5, Appl
17	41	40.6	339	4 US-09-892-100-5	Sequence 5, Appl
18	41	40.6	731	1 US-08-070-165F-10	Sequence 10, Appl
19	41	40.6	731	2 US-08-885-418-10	Sequence 10, Appl
20	40	39.6	20	1 US-08-484-135-27	Sequence 27, Appl
21	40	39.6	20	1 US-08-484-635-208	Sequence 208, App
22	40	39.6	20	2 US-08-484-631-208	Sequence 208, App
23	40	39.6	20	2 US-08-827-570-208	Sequence 208, App
24	40	39.6	80	2 US-08-332-562A-84	Sequence 84, Appl
25	40	39.6	203	3 US-08-284-391B-31	Sequence 31, Appl
26	40	39.6	203	3 US-08-218-950-31	Sequence 31, Appl
27	40	39.6	295	6 5223394-9	Patent No. 5223394

28	40	39.6	310	3 US-08-477-460B-6	Sequence 6, Appl
29	40	39.6	310	3 US-08-379-516-6	Sequence 6, Appl
30	40	39.6	310	3 US-09-329-916-6	Sequence 6, Appl
31	40	39.6	310	3 US-08-485-372A-6	Sequence 6, Appl
32	40	39.6	310	4 US-09-409-006A-6	Sequence 6, Appl
33	40	39.6	310	4 US-08-484-681-6	Sequence 6, Appl
34	40	39.6	310	5 PCT-US93-07422-6	Sequence 6, Appl
35	40	39.6	318	6 5223394-11	Patent No. 5223394
36	40	39.6	349	3 US-09-459-774-2	Sequence 7, Appl
37	40	39.6	349	4 US-09-417-039-7	Sequence 7, Appl
38	40	39.6	349	4 US-09-903-817-2	Sequence 2, Appl
39	40	39.6	394	4 US-08-466-368-2	Sequence 2, Appl
40	40	39.6	394	4 US-08-328-500-2	Sequence 2, Appl
41	40	39.6	394	4 5223418-2	Patent No. 5223418
42	40	39.6	398	2 US-08-284-391B-29	Sequence 29, Appl
43	40	39.6	398	3 US-09-218-950-29	Sequence 29, Appl
44	40	39.6	402	1 US-08-236-311-1	Sequence 1, Appl
45	40	39.6	402	3 US-08-457-918-1	Sequence 1, Appl

ALIGNMENTS

```
RESULT 1
US-09-134-000C-6119
; Sequence 6119, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6119
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6119

Query Match      52.5%; Score 53; DB 4; Length 176;
Best Local Similarity 63.6%; Pred. No. 0.78;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      4 CERFEKGQWTCN 14
Db      166 CERFEKGWTCN 176

RESULT 2
US-09-328-352-6740
; Sequence 6740, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6740
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6740

Query Match      43.6%; Score 44; DB 4; Length 222;
Best Local Similarity 60.0%; Pred. No. 24;
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Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 WVCEFEKQCN 11
|:|:|:|:
Db 27 WMCEVKKKQY 36

RESULT 3
US-09-328-352-4605
; Sequence 4605, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4605
; LENGTH: 342
; TYPE: PR1
; ORGANISM: Acinetobacter baumannii
US-09-328-352-4605

Query Match 43.6%; Score 44; DB 4; Length 342;
Best Local Similarity 54.5%; Pred. No. 38;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 EFEKGQWTCNV 15
::|:|:|:|:
Db 81 KYENGWMLCNV 91

RESULT 4
US-08-191-866D-58
; Sequence 58, Application US/08191866D
; Patent No. 5783195
; GENERAL INFORMATION:
; APPLICANT: Cochran, Mark D
; APPLICANT: Macdonald, Richard D.
; TITLE OF INVENTION: Recombinant Infectious Bovine
; TITLE OF INVENTION: Rhinotracheitis Virus S-IBR-052 And Uses Thereof
; NUMBER OF SEQUENCES: 99
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: John P. White
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,866D
FILING DATE: 4 February 1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0525
TELEX: 422523
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
LENGTH: 617 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-191-866D-58

Query Match 43.6%; Score 44; DB 1; Length 617;
Best Local Similarity 77.8%; Pred. No. 73;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 FEKGQWTCN 14
|||:|:|:
Db 37 FEKGQWTCN 45

RESULT 5
US-08-185-949B-58
; Sequence 58, Application US/08185949B
; Patent No. 5874279
; GENERAL INFORMATION:
; APPLICANT: Mark D. Cochran
; APPLICANT: Richard D. Macdonald
; TITLE OF INVENTION: Recombinant Infectious Bovine
; TITLE OF INVENTION: Rhinotracheitis Virus
; NUMBER OF SEQUENCES: 104
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: John P. White
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM 330 466 DX2
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/185,949B
FILING DATE: 03-NOV-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 678
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 278-0525
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
LENGTH: 617 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-185-949B-58

Query Match 43.6%; Score 44; DB 2; Length 617;
Best Local Similarity 77.8%; Pred. No. 73;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 FEKGQWTCN 14
|||:|:|:
Db 37 FEKGQWTCN 45

RESULT 6
US-09-976-594-168
; Sequence 168, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LAYER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12


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; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 168
; LENGTH: 1456
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 1674368CD1
US-09-976-594-168

Query Match          43.6%; Score 44; DB 4; Length 1456;
Best Local Similarity 50.0%; Pred. No. 1.8e+02;
Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1 DWCEPEKQ 10
       :|:|:|:|:|
Db      774 NMICQIQKQ 783

RESULT 7
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621.976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24..-1
US-09-621-976-5666

Query Match          42.6%; Score 43; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 9.9;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY      1 DWCEPEKQWTC 13
       |||:|:|:|
Db      54 DMNCVWEPHMLC 66

RESULT 8
US-09-390-234-16
; Sequence 16, Application US/09390234
; Patent No. 6365390
; GENERAL INFORMATION:
; APPLICANT: Blum, David L.
; APPLICANT: Kataeva, Irina
; APPLICANT: Li, Xin-Liang
; APPLICANT: Ljungdahl, Lars G.
; TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
; FILE REFERENCE: 67-98
; CURRENT APPLICATION NUMBER: US/09/390.234
; CURRENT FILING DATE: 1999-09-03
; EARLIER APPLICATION NUMBER: US 60/099,136
; EARLIER FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 16
; LENGTH: 789
; TYPE: PRT
; ORGANISM: Ruminococcus sp.
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US-09-390-234-16

Query Match          42.6%; Score 43; DB 4; Length 789;
Best Local Similarity 53.8%; Pred. No. 1.4e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      4 CEFPEKQWTCNVL 16
       |||:|:|:|:|
Db      570 CKFTGGKSCNVI 582

RESULT 9
US-09-603-311-16
; Sequence 16, Application US/09603311
; Patent No. 6602700
; GENERAL INFORMATION:
; APPLICANT: Li, Xin-Liang
; APPLICANT: Ljungdahl, Lars G.
; APPLICANT: Azain, Michael J.
; APPLICANT: Davies, Edward T.
; APPLICANT: Shah, Ashit K.
; APPLICANT: Blum, David L.
; APPLICANT: Kataeva, Irina
; TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
; FILE REFERENCE: 67-98A
; CURRENT APPLICATION NUMBER: US/09/603,311
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: US 60/099,136
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/390,324
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 16
; LENGTH: 789
; TYPE: PRT
; ORGANISM: Ruminococcus sp.
US-09-603-311-16

Query Match          42.6%; Score 43; DB 4; Length 789;
Best Local Similarity 53.8%; Pred. No. 1.4e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      4 CEFPEKQWTCNVL 16
       |||:|:|:|:|
Db      570 CKFTGGKSCNVI 582

RESULT 10
US-08-988-111-3
; Sequence 3, Application US/08988111
; Patent No. 6103505
; GENERAL INFORMATION:
; APPLICANT: Clausen, Ib G.
; APPLICANT: Palkar, Shankant A.
; APPLICANT: Boroch, Kim
; APPLICANT: Barfoed, Martin
; APPLICANT: Clausen, Kim
; APPLICANT: Fuglsang, Claus C.
; APPLICANT: Dybdal, Lone
; APPLICANT: Halkier, Torben
; TITLE OF INVENTION: Method For Reducing Phosphorus
; TITLE OF INVENTION: Content of Edible Oils
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61035050 No. 6103505disk of No. 6103505th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
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COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/988,111
FILING DATE: 09-DEC-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Green, Reza
REGISTRATION NUMBER: 38,475
REFERENCE/DOCKET NUMBER: 4798.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 333 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-988-111.3

Query Match 41.6%; Score 42; DB 3; Length 333;
Best Local Similarity 37.5%; Pred. No. 75;
Matches 6; Conservative 5; Mismatches 5; Indels 0; Gaps 0
QY 1 DWVCFEFGQMCNTVNL 16
Db 119 NWITNFPGKTCDLV 134

RESULT 11
US-09-387-922-3
; Sequence 3, Application US/09387922
; Patent No. 6143545
GENERAL INFORMATION:
APPLICANT: Clausen, Ib G.
APPLICANT: Patkar, Shankant A.
APPLICANT: Borch, Kim
APPLICANT: Barfoed, Martin
APPLICANT: Clausen, Kim
APPLICANT: Fuglsang, Claus C.
APPLICANT: Dybdal, Lone
APPLICANT: Halkier, Torben
TITLE OF INVENTION: Method For Reducing Phosphorus
TITLE OF INVENTION: Content of Edible Oils
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESSES:
ADDRESSEE: No. 61435450 No. 6143545disk of No. 6143545th America, Inc.
STREET: 405 Lexington Avenue
CITY: New York
STATE: NY
COUNTRY: U.S.A.
ZIP: 10174
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/387,922
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/988,111
FILING DATE: 09-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Green, Reza
REGISTRATION NUMBER: 38,475
REFERENCE/DOCKET NUMBER: 4798.200-US
TELECOMMUNICATION INFORMATION:

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/ TELEPHONE: 212-867-0123
/ TELEFAX: 212-878-9655
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 333 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-387-922-3

Query Match      41.6%; Score 42; DB 3; Length 333;
Best Local Similarity 37.5%; Pred. No. 75;
Matches 6; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY      1 DWCEPEKGGQWTCNVL 16
       119 NWITNFQKTCIDLV 134
       119 NWITNFQKTCIDLV 134

RESULT 12
US-09-417-039-4
; Sequence 4, Application US/09417039A
; Patent No. 6485972
; GENERAL INFORMATION:
; APPLICANT: McMahon, Andrew P.
; APPLICANT: Parr, Brian A.
; TITLE OF INVENTION: WNT SIGNALING IN REPRODUCTIVE ORGANS
; FILE REFERENCE: 00246/232001
; CURRENT APPLICATION NUMBER: US/09/417,039A
; CURRENT FILING DATE: 1998-10-12
; EARLIER APPLICATION NUMBER: US 60/109,355
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-417-039-4

Query Match      41.6%; Score 42; DB 4; Length 360;
Best Local Similarity 35.0%; Pred. No. 82;
Matches 7; Conservative 3; Mismatches 6; Indels 4; Gaps 1;

QY      1 DWCE---PEKGGWTCNVL 16
       71 EWTAECOHQFQHRHWCNTL 90
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RESULT 13
US-08-414-926A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; ADDRESS/SEE: COOLEY Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

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;; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,926A
; FILING DATE: March 31, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseerr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR-011/OOUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-7622
; TELEFAX: 415-857-0663
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-414-926A-5

Query Match 40.6%; Score 41; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEPEKQW 11
Db 307 WVCEPEKHEW 316

RESULT 14
US-08-926-922-5
; Sequence 5, Application US/08926922
; Patent No. 5925751
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseerr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseerr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-926-922-5

Query Match 40.6%; Score 41; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEPEKQW 11

Db 307 WVCEPEKHEW 316

RESULT 15
US-09-253-682-5
; Sequence 5, Application US/09253682
; Patent No. 6040170
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseerr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/253,682
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseerr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-253-682-5

Query Match 40.6%; Score 41; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEPEKQW 11
Db 307 WVCEPEKHEW 316

Search completed: September 8, 2004, 12:58:33
Job time : 13.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds

(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-117

Perfect score: 110

Sequence: 1 DWCEWKGKQWTCNPL 16

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	110	100.0	16	11	US-09-825-517A-117
2	90	81.8	16	11	US-09-825-517A-95
3	86	78.2	16	11	US-09-825-517A-68
4	84	76.4	16	11	US-09-825-517A-101
5	84	76.4	16	11	US-09-825-517A-126
6	83	75.5	16	11	US-09-825-517A-60
7	83	75.5	16	11	US-09-825-517A-113
8	81	73.6	16	11	US-09-825-517A-149
9	80	72.7	16	11	US-09-825-517A-146
10	80	72.7	16	11	US-09-825-517A-148
11	79	71.8	16	11	US-09-825-517A-78
12	78	70.9	16	11	US-09-825-517A-54
13	78	70.9	16	11	US-09-825-517A-91
14	78	70.9	16	11	US-09-825-517A-114
15	78	70.9	16	11	US-09-825-517A-125

16	78	70.9	16	11	US-09-825-517A-138	Sequence 138, App
17	78	70.9	16	11	US-09-825-517A-142	Sequence 142, App
18	78	70.9	16	11	US-09-825-517A-143	Sequence 143, App
19	77	70.0	16	11	US-09-825-517A-112	Sequence 112, App
20	77	70.0	16	11	US-09-825-517A-115	Sequence 115, App
21	77	70.0	16	11	US-09-825-517A-118	Sequence 118, App
22	77	70.0	16	11	US-09-825-517A-122	Sequence 122, App
23	77	70.0	16	11	US-09-825-517A-130	Sequence 130, App
24	77	70.0	16	11	US-09-825-517A-140	Sequence 140, App
25	77	70.0	16	11	US-09-825-517A-141	Sequence 141, App
26	77	70.0	16	11	US-09-825-517A-144	Sequence 144, App
27	76	69.1	16	11	US-09-825-517A-59	Sequence 59, App1
28	76	69.1	16	11	US-09-825-517A-93	Sequence 93, App1
29	76	69.1	16	11	US-09-825-517A-139	Sequence 139, App
30	75	68.2	16	11	US-09-825-517A-80	Sequence 80, App1
31	74	67.3	16	11	US-09-825-517A-82	Sequence 82, App1
32	73	66.4	16	11	US-09-825-517A-70	Sequence 70, App1
33	73	66.4	16	11	US-09-825-517A-76	Sequence 76, App1
34	72	65.5	16	11	US-09-825-517A-5	Sequence 5, App1
35	72	65.5	16	11	US-09-825-517A-61	Sequence 61, App1
36	72	65.5	16	11	US-09-825-517A-105	Sequence 105, App
37	72	65.5	16	11	US-09-825-517A-109	Sequence 109, App
38	72	65.5	16	11	US-09-825-517A-123	Sequence 123, App
39	72	65.5	16	11	US-09-825-517A-25	Sequence 25, App1
40	71	64.5	16	11	US-09-825-517A-67	Sequence 67, App1
41	71	64.5	16	11	US-09-825-517A-72	Sequence 72, App1
42	71	64.5	16	11	US-09-825-517A-88	Sequence 88, App1
43	71	64.5	16	11	US-09-825-517A-90	Sequence 90, App1
44	71	64.5	16	11	US-09-825-517A-116	Sequence 116, App
45	71	64.5	16	11	US-09-825-517A-127	Sequence 127, App

ALIGNMENTS

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RESULT 1
US-09-825-517A-117
; Sequence 117, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825, 517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 117
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-117

Query Match      100.0%; Score 110; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWCEWKGKQWTCNPL 16
Db      1 DWCEWKGKQWTCNPL 16

RESULT 2
US-09-825-517A-95
; Sequence 95, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95
```

```
Query Match      81.8%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.8e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 DWVCEMGKNQWTCNPL 16
      |||||:|||||
Db      1 DWCEYAKNQWNCNPL 16
```

RESULT 3

```
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68
```

```
Query Match      78.2%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEMGKNQWTCNPL 16
      |||||:|||||
Db      1 DWVCEWFKQWFCNPL 16
```

RESULT 4

```
US-09-825-517A-101
; Sequence 101, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-101
```

```
Query Match      76.4%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 6.5e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEMGKNQWTCNPL 16
      |||||:|||||
Db      1 DWVCEMSKQWMCNVL 16
```

RESULT 5

```
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126
```

```
Query Match      76.4%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEMGKNQWTCNPL 16
      |||||:|||||
Db      1 DWVCEMLNQWMCNVL 16
```

RESULT 6

```
US-09-825-517A-60
; Sequence 60, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 16
; TYPE: PRT
```

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CRA binding polypeptide
US-09-825-517A-60

Query Match 75.5%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEMGKNQWTCNPL 16
|||||:|||||
Db 1 DWCEIDKQWTCNPL 16

RESULT 7
US-09-825-517A-113
Sequence 113, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US 09/541,345
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 113
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-113

Query Match 75.5%; Score 83; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWCEMGKNQWTCNPL 16
|||||:|||||
Db 1 DWCEYVKSQWTCNPL 16

RESULT 8
US-09-825-517A-149
Sequence 149, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US 09/541,345
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 149
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-149

Query Match 73.6%; Score 81; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00017;

Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 DWCEMGKNQWTCNPL 16
|||||:|||||
Db 1 DWCEYVKSQWTCNPL 16

RESULT 9
US-09-825-517A-146
Sequence 146, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US 09/541,345
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 146
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match 72.7%; Score 80; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00023;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEMGKNQWTCNPL 16
|||||:|||||
Db 1 DWCEWLKSWQWFCNSL 16

RESULT 10
US-09-825-517A-148
Sequence 148, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US 09/541,345
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 148
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match 72.7%; Score 80; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00023;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEMGKNQWTCNPL 16
|||||:|||||
Db 1 DWCEWLKSWQWFCNSL 16

```
RESULT 11
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match          71.8%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00032;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEMGNQMTNCNPL 16
Db      1 DWVCEMFKQWVCNPL 16

RESULT 12
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match          70.9%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00044;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEMGNQMTNCNPL 16
Db      1 DWVCEMFKQWVCNPL 16

RESULT 13
US-09-825-517A-91
; Sequence 91, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
```

```
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-91

Query Match          70.9%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00044;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEMGNQMTNCNPL 16
Db      1 DWVCEMFKQWVCNPL 16

RESULT 14
US-09-825-517A-114
; Sequence 114, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 114
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-114

Query Match          70.9%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00044;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWVCEMGNQMTNCNPL 16
Db      1 DWVCEFSKVQWVCNPL 16

RESULT 15
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
```



```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      70.9%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00044;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEMGKNGWTCTNPL 16
        |||||
Db      1 DWVCEWLKMQWACNVL 16
```

Search completed: September 8, 2004, 14:25:06
Job time : 44.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-117
Perfect score: 110
Sequence: 1 DWCEMGKQMTCNPL 16

Scoring table: BIOSM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*
3: /cgn2_6/prodata/2/1aa/6A_COMB.pep:*
4: /cgn2_6/prodata/2/1aa/6B_COMB.pep:*
5: /cgn2_6/prodata/2/1aa/PCITUS_COMB.pep:*
6: /cgn2_6/prodata/2/1aa/backfilesl.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	55	50.0	26	1	US-08-484-635-89 Sequence 89, Appl
2	55	50.0	26	2	US-08-484-631-89 Sequence 89, Appl
3	55	50.0	26	1	US-08-827-570-89 Sequence 89, Appl
4	54	49.1	24	1	US-08-484-635-86 Sequence 86, Appl
5	54	49.1	24	2	US-08-484-631-86 Sequence 86, Appl
6	54	49.1	24	2	US-08-827-570-86 Sequence 86, Appl
7	51	46.4	20	1	US-08-484-135-91 Sequence 91, Appl
8	51	46.4	20	2	US-08-484-635-63 Sequence 63, Appl
9	51	46.4	23	2	US-08-484-631-63 Sequence 63, Appl
10	51	46.4	23	2	US-08-827-570-63 Sequence 63, Appl
11	49	44.5	71	4	US-09-621-976-5666 Sequence 5666, Ap
12	48	43.6	20	1	US-08-484-135-57 Sequence 57, Appl
13	48	43.6	20	1	US-08-484-635-229 Sequence 229, App
14	48	43.6	20	2	US-08-484-631-229 Sequence 229, App
15	48	43.6	20	2	US-08-827-570-229 Sequence 229, App
16	47	42.7	20	1	US-08-484-135-78 Sequence 78, Appl
17	47	42.7	20	1	US-08-484-635-40 Sequence 40, Appl
18	47	42.7	20	2	US-08-484-631-40 Sequence 40, Appl
19	47	42.7	20	2	US-08-827-570-40 Sequence 40, Appl
20	47	42.7	21	4	US-09-337-227C-27 Sequence 27, Appl
21	47	42.7	21	4	US-09-723-251A-27 Sequence 27, Appl
22	47	42.7	23	1	US-08-484-635-56 Sequence 56, Appl
23	47	42.7	23	2	US-08-484-631-56 Sequence 56, Appl
24	47	42.7	23	2	US-08-827-570-56 Sequence 56, Appl
25	47	42.7	26	1	US-08-484-635-242 Sequence 242, App
26	47	42.7	26	2	US-08-484-631-242 Sequence 242, App
27	47	42.7	26	2	US-08-827-570-242 Sequence 242, App

28	47	42.7	2231	1	US-08-153-799-16 Sequence 16, Appl
29	47	42.7	2324	1	US-08-283-657-1 Sequence 1, Appl
30	47	42.7	2324	5	PCT-US95-09819-1 Patent No. 5455158
31	47	42.7	2327	6	US-09-016-366A-12 Sequence 2, Appl
32	47	42.7	2386	2	US-08-551-356-2 Sequence 2, Appl
33	47	42.7	2446	2	US-08-551-356-2 Sequence 2, Appl
34	47	42.7	2446	5	PCT-US93-12687-2 Sequence 101, App
35	46	41.8	21	1	US-08-484-635-101 Sequence 101, App
36	46	41.8	21	2	US-08-484-631-101 Sequence 101, App
37	46	41.8	21	2	US-08-827-570-101 Sequence 101, App
38	46	41.8	22	1	US-08-484-635-98 Sequence 98, Appl
39	46	41.8	22	2	US-08-484-631-98 Sequence 98, Appl
40	46	41.8	22	2	US-08-827-570-98 Sequence 98, Appl
41	46	41.8	26	1	US-08-484-635-90 Sequence 90, Appl
42	46	41.8	26	2	US-08-484-631-90 Sequence 90, Appl
43	46	41.8	26	2	US-08-827-570-90 Sequence 90, Appl
44	46	41.8	174	2	US-08-683-262B-58 Sequence 58, Appl
45	46	41.8	174	2	US-08-683-262B-58 Sequence 59, Appl

ALIGNMENTS

RESULT 1
US-08-484-635-89
Sequence 89, Application US/08484635
Patent No. 5773569
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kaahyad, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,635
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-635-89

Query Match 50.0%; Score 55; DB 1; Length 26;
Best Local Similarity 58.3%; Pred. No. 0.13;
Matches 7; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 CEMGKNQWTCNP 15
Db 5 CEMGPETWICRP 16

RESULT 2

US-08-484-631-89
Sequence 89, Application US/08484631
Patent No. 5830851
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Mulcahy, Dana
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,631
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-5043
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-89

Query Match 50.0%; Score 55; DB 2; Length 26;
Best Local Similarity 58.3%; Pred. No. 0.13;
Matches 7; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 CEMGKNQWTCNP 15
Db 5 CEMGPETWICRP 16

RESULT 3
US-08-827-570-89
Sequence 89, Application US/08827570
Patent No. 5986047
GENERAL INFORMATION:

APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,635
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-5043
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-827-570-89

Query Match 50.0%; Score 55; DB 2; Length 26;
Best Local Similarity 58.3%; Pred. No. 0.13;
Matches 7; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 CEMGKNQWTCNP 15
Db 5 CEMGPETWICRP 16

RESULT 4
US-08-484-635-86
Sequence 86, Application US/08484635
Patent No. 5773569
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew

STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,635
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-635-86

Query Match 49.1%; Score 54; DB 1; Length 24;
Best Local Similarity 46.2%; Pred. No. 0.17;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCWGKQWTC 13
DB 10 EYVCQWGPDTWLC 22

RESULT 5
US-08-484-631-86
Sequence 86, Application US/08484631
Patent No. 5830851
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CURRENT APPLICATION DATA:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,631
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-86

Query Match 49.1%; Score 54; DB 2; Length 24;
Best Local Similarity 46.2%; Pred. No. 0.17;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCWGKQWTC 13
DB 10 EYVCQWGPDTWLC 22

RESULT 6
US-08-827-570-86
Sequence 86, Application US/08827570
Patent No. 5986047
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CURRENT APPLICATION DATA:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,635
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:

LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-827-570-86

Query Match 49.1%; Score 54; DB 2; Length 24;
Best Local Similarity 46.2%; Pred. No. 0.17;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEWGNQWTC 13
DB 10 EYVCGMGPWTWLC 22

RESULT 7
US-08-484-135-91
Sequence 91, Application US/08484135
Patent No. 5767078
GENERAL INFORMATION:
APPLICANT: Johnson, Dana L
APPLICANT: Zivvin, Robert A
TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: Frank S. Digiglio
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: U.S.A.
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,135
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Digiglio, Frank S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 9594
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742-4343
TELEFAX: (516) 742-4366
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-135-91

Query Match 46.4%; Score 51; DB 1; Length 20;
Best Local Similarity 37.5%; Pred. No. 0.37;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEWGNQWTCNPL 16
DB 3 EYLCRMGPNWVCTPV 18

RESULT 8
US-08-484-635-63
Sequence 63, Application US/08484635
Patent No. 5773569
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.

APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stuart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,635
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-635-63

Query Match 46.4%; Score 51; DB 1; Length 23;
Best Local Similarity 40.0%; Pred. No. 0.43;
Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCEWGNQWTCNP 15
DB 3 EYLCVMGPNWVCSP 17

RESULT 9
US-08-484-631-63
Sequence 63, Application US/08484631
Patent No. 5830851
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stuart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA

ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,631
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-63

Query Match 46.4%; Score 51; DB 2; Length 23;
Best Local Similarity 40.0%; Pred. No. 0.43;
Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCWGNQWTCNP 15
DB 3 EYICWGPNTWCSP 17

RESULT 10
US-08-827-570-63
Sequence 63, Application US/08827570
Patent No. 5986047
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Doolittle, Linda K.
APPLICANT: Johnson, Dana
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Steuart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,635
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/155,940

FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-827-570-63

Query Match 46.4%; Score 51; DB 2; Length 23;
Best Local Similarity 40.0%; Pred. No. 0.43;
Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCWGNQWTCNP 15
DB 3 EYICWGPNTWCSP 17

RESULT 11
US-09-621-976-5666
Sequence 5666, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 5666
LENGTH: 71
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -24...-1
US-09-621-976-5666

Query Match 44.5%; Score 49; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 2.8;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCWGNQWTC 13
DB 54 DWNCWBEHMLC 66

RESULT 12
US-08-484-135-57
Sequence 57, Application US/08484135
Patent No. 5767078
GENERAL INFORMATION:
APPLICANT: Johnson, Dana L.
APPLICANT: Zivlin, Robert A.
TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: Frank S. DiGioglio
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: U.S.A.

ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,135
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Digiglio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 9594
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742-4343
TELEFAX: (516) 742-4366
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-135-57

Query Match 43.6%; Score 48; DB 1; Length 20;
Best Local Similarity 37.5%; Pred. No. 1;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWCEWGNQNTNPL 16
DB 3 EYSCRMGPNTWCKPV 18

RESULT 13
US-08-484-635-229
Sequence 229, Application US/08484635
Patent No. 5773569
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Chang, Ray S.
APPLICANT: Kaahya, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stuart Street Tower
City: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,635
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 229:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-635-229

Query Match 43.6%; Score 48; DB 1; Length 20;
Best Local Similarity 37.5%; Pred. No. 1;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWCEWGNQNTNPL 16
DB 3 EYSCRMGPNTWCKPV 18

RESULT 14
US-08-484-631-229
Sequence 229, Application US/08484631
Patent No. 5830851
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kaahya, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stuart Street Tower
City: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,631
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 229:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-229

Query Match 43.6%; Score 48; DB 2; Length 20;
Best Local Similarity 37.5%; Pred. No. 1;

Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;
QY 1 DWVCEWGNQWTCNPL 16
::|::|::|:
Db 3 EYSCRMGPNTWVCKRV 18

RESULT 15
US-08-827-570-229
; Sequence 229, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Crew
; STREET: One Market Plaza, Stewart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 229:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-827-570-229

Query Match 43.6%; Score 48; DB 2; Length 20;
Best Local Similarity 37.5%; Pred. NO. 1;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;
QY 1 DWVCEWGNQWTCNPL 16
::|::|::|:
Db 3 EYSCRMGPNTWVCKRV 18

Search completed: September 8, 2004, 12:58:32
Job time : 12.2 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 : Search time 44.3 Seconds

(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-116

Sequence: 1 DWCEIYKNQMHCVNL 16

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 1298764 segs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	101	100.0	16	11	US-09-825-517A-116
2	87	86.1	16	11	US-09-825-517A-127
3	84	85.1	16	11	US-09-825-517A-80
4	84	83.2	16	11	US-09-825-517A-65
5	84	83.2	16	11	US-09-825-517A-149
6	82	81.2	16	11	US-09-825-517A-59
7	82	81.2	16	11	US-09-825-517A-88
8	82	81.2	16	11	US-09-825-517A-147
9	81	80.2	16	11	US-09-825-517A-126
10	80	79.2	16	11	US-09-825-517A-128
11	80	79.2	16	11	US-09-825-517A-137
12	79	78.2	16	11	US-09-825-517A-67
13	79	78.2	16	11	US-09-825-517A-95
14	79	78.2	16	11	US-09-825-517A-139
15	78	77.2	16	11	US-09-825-517A-50

16	78	77.2	16	11	US-09-825-517A-76	Sequence 76, App1
17	77	76.2	16	11	US-09-825-517A-75	Sequence 75, App1
18	77	76.2	16	11	US-09-825-517A-93	Sequence 93, App1
19	77	76.2	16	11	US-09-825-517A-150	Sequence 150, App1
20	76	75.2	16	11	US-09-825-517A-49	Sequence 49, App1
21	76	75.2	16	11	US-09-825-517A-100	Sequence 100, App1
22	76	75.2	16	11	US-09-825-517A-113	Sequence 113, App1
23	76	75.2	16	11	US-09-825-517A-119	Sequence 119, App1
24	76	75.2	16	11	US-09-825-517A-133	Sequence 133, App1
25	76	75.2	16	11	US-09-825-517A-151	Sequence 151, App1
26	75	74.3	16	11	US-09-825-517A-52	Sequence 52, App1
27	75	74.3	16	11	US-09-825-517A-82	Sequence 82, App1
28	75	74.3	16	11	US-09-825-517A-118	Sequence 118, App1
29	74	73.3	16	11	US-09-825-517A-78	Sequence 78, App1
30	74	73.3	16	11	US-09-825-517A-86	Sequence 86, App1
31	73	72.3	16	11	US-09-825-517A-42	Sequence 42, App1
32	73	72.3	16	11	US-09-825-517A-104	Sequence 104, App1
33	73	72.3	16	11	US-09-825-517A-105	Sequence 105, App1
34	73	72.3	16	11	US-09-825-517A-109	Sequence 109, App1
35	73	72.3	16	11	US-09-825-517A-123	Sequence 123, App1
36	73	72.3	16	11	US-09-825-517A-125	Sequence 125, App1
37	73	72.3	16	11	US-09-825-517A-129	Sequence 129, App1
38	73	72.3	16	11	US-09-825-517A-142	Sequence 142, App1
39	73	72.3	16	11	US-09-825-517A-148	Sequence 148, App1
40	72	71.3	16	11	US-09-825-517A-56	Sequence 56, App1
41	72	71.3	16	11	US-09-825-517A-60	Sequence 60, App1
42	72	71.3	16	11	US-09-825-517A-61	Sequence 61, App1
43	72	71.3	16	11	US-09-825-517A-112	Sequence 112, App1
44	72	71.3	16	11	US-09-825-517A-122	Sequence 122, App1
45	72	71.3	16	11	US-09-825-517A-124	Sequence 124, App1

ALIGNMENTS

```
RESULT 1
US-09-825-517A-116
; Sequence 116, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 116
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-116

Query Match      100.0%; Score 101; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWCEIYKNQMHCVNL 16
Db      1 DWCEIYKNQMHCVNL 16

RESULT 2
US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
```

```
/ APPLICANT: Rondon, Isaac J
/ APPLICANT: Ladner, Robert C
/ TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
/ FILE REFERENCE: DYX-016.1 (3421.1005-001)
/ CURRENT FILING DATE: 2003-03-24
/ PRIOR APPLICATION NUMBER: US 09/541,345
/ PRIOR FILING DATE: 2000-04-03
/ NUMBER OF SEQ ID NOS: 151
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 127
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match      86.1%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.9e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 DWVCEIVKQWMCNVL 16
DB      1 DWVCEIVKQWMCNVL 16

RESULT 3
US-09-825-517A-80
/ Sequence 80, Application US/09825517A
/ Publication No. US20030203415A1
/ GENERAL INFORMATION:
/ APPLICANT: Rondon, Isaac J
/ APPLICANT: Ladner, Robert C
/ TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
/ FILE REFERENCE: DYX-016.1 (3421.1005-001)
/ CURRENT FILING DATE: 2003-03-24
/ PRIOR APPLICATION NUMBER: US 09/541,345
/ PRIOR FILING DATE: 2000-04-03
/ NUMBER OF SEQ ID NOS: 151
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 80
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      85.1%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEIVKQWMCNVL 16
DB      1 DWVCEIVKQWMCNVL 16

RESULT 4
US-09-825-517A-65
/ Sequence 65, Application US/09825517A
/ Publication No. US20030203415A1
/ GENERAL INFORMATION:
/ APPLICANT: Rondon, Isaac J
/ APPLICANT: Ladner, Robert C
/ TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
/ FILE REFERENCE: DYX-016.1 (3421.1005-001)
/ CURRENT FILING DATE: 2003-03-24
/ PRIOR APPLICATION NUMBER: US 09/541,345
/ PRIOR FILING DATE: 2000-04-03
/ NUMBER OF SEQ ID NOS: 151
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 59
/ LENGTH: 16
/ TYPE: PRT
```

```
/ PRIOR APPLICATION NUMBER: US 09/541,345
/ PRIOR FILING DATE: 2000-04-03
/ NUMBER OF SEQ ID NOS: 151
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 65
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-65

Query Match      83.2%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 4.9e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 DWVCEIVKQWMCNVL 16
DB      1 DWVCEIVKQWMCNVL 16

RESULT 5
US-09-825-517A-149
/ Sequence 149, Application US/09825517A
/ Publication No. US20030203415A1
/ GENERAL INFORMATION:
/ APPLICANT: Rondon, Isaac J
/ APPLICANT: Ladner, Robert C
/ TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
/ FILE REFERENCE: DYX-016.1 (3421.1005-001)
/ CURRENT FILING DATE: 2003-03-24
/ PRIOR APPLICATION NUMBER: US 09/541,345
/ PRIOR FILING DATE: 2000-04-03
/ NUMBER OF SEQ ID NOS: 151
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 149
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-149

Query Match      83.2%; Score 84; DB 11; Length 16;
Best Local Similarity 87.3%; Pred. No. 4.9e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEIVKQWMCNVL 16
DB      1 DWVCEIVKQWMCNVL 16

RESULT 6
US-09-825-517A-59
/ Sequence 59, Application US/09825517A
/ Publication No. US20030203415A1
/ GENERAL INFORMATION:
/ APPLICANT: Rondon, Isaac J
/ APPLICANT: Ladner, Robert C
/ TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
/ FILE REFERENCE: DYX-016.1 (3421.1005-001)
/ CURRENT FILING DATE: 2003-03-24
/ PRIOR APPLICATION NUMBER: US 09/541,345
/ PRIOR FILING DATE: 2000-04-03
/ NUMBER OF SEQ ID NOS: 151
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 59
/ LENGTH: 16
/ TYPE: PRT
```

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match
Best Local Similarity 81.2%; Score 82; DB 11; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEIVKQWMCNVL 16
Db 1 DWCEIVKQWMCNVL 16

RESULT 7
US-09-825-517A-88
Sequence 88, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 88
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-88

Query Match
Best Local Similarity 81.2%; Score 82; DB 11; Length 16;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEIVKQWMCNVL 16
Db 1 DWCEIVKQWMCNVL 16

RESULT 8
US-09-825-517A-147
Sequence 147, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 147
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match
Best Local Similarity 81.2%; Score 82; DB 11; Length 16;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1 DWCEIVKQWMCNVL 16
Db 1 DWCEIVKQWMCNVL 16

RESULT 9
US-09-825-517A-126
Sequence 126, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 126
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match
Best Local Similarity 80.2%; Score 81; DB 11; Length 16;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEIVKQWMCNVL 16
Db 1 DWCEIVKQWMCNVL 16

RESULT 10
US-09-825-517A-128
Sequence 128, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Issac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 128
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match
Best Local Similarity 79.2%; Score 80; DB 11; Length 16;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEIVKQWMCNVL 16
Db 1 DWCEIVKQWMCNVL 16

```
RESULT 11
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match          79.2%; Score 80; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 0.00018;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEIVKQNMHCNVL 16
   |||||:|||||:|
Db 1 DWCEFFKQWNCNVL 16

RESULT 12
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

Query Match          78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 0.00024;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEIVKQNMHCNVL 16
   |||||:|||||:|
Db 1 DWCEFFKQWNCNVL 16

RESULT 13
US-09-825-517A-95
; Sequence 95, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
```

```
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95

Query Match          78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00024;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEIVKQNMHCNVL 16
   |||||:|||||:|
Db 1 DWCEYAKQWNCNPL 16

RESULT 14
US-09-825-517A-139
; Sequence 139, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-139

Query Match          78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00024;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEIVKQNMHCNVL 16
   |||||:|||||:|
Db 1 DWCEYFKQWNCNVL 16

RESULT 15
US-09-825-517A-50
; Sequence 50, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
```

; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50

Query Match 77.2%; Score 78; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. NO. 0.00034;
Matches 11; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 1 DWVCEIYKNQWNCNL 16
|||: |||||:
Db 1 DWVCNLFKNQWNCNM 16

Search completed: September 8, 2004, 14:25:06
Job time : 44.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds

(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-116
Perfect score: 101
Sequence: 1 DWCEIVKQWNCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/2/1aa/5A COMB.pep:*
2: /cgn2_6/prodata/2/1aa/5B COMB.pep:*
3: /cgn2_6/prodata/2/1aa/6A COMB.pep:*
4: /cgn2_6/prodata/2/1aa/6B COMB.pep:*
5: /cgn2_6/prodata/2/1aa/PCTUS COMB.pep:*
6: /cgn2_6/prodata/2/1aa/backfilest1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	45.5	494	4	US-09-543-681A-7142
2	43	42.6	399	1	US-08-414-926A-5
3	43	42.6	399	2	US-08-926-922-5
4	43	42.6	399	3	US-09-253-682-5
5	43	42.6	399	4	US-09-527-657-5
6	43	42.6	399	4	US-09-892-100-5
7	43	42.6	458	5	PCT-US96-00994-4
8	42	41.6	415	4	US-09-172-952-13
9	42	41.6	415	3	US-09-100-193-2
10	42	41.6	513	3	US-09-100-193-3
11	42	41.6	521	4	US-09-086-663A-79
12	42	41.6	521	4	US-09-086-663A-81
13	42	41.6	528	4	US-09-086-663A-82
14	42	41.6	548	4	US-09-086-663A-71
15	42	41.6	596	4	US-09-086-663A-2
16	42	41.6	596	4	US-09-086-663A-80
17	41	40.6	150	4	US-09-543-681A-927
18	41	40.6	179	4	US-09-543-681A-927
19	41	40.6	451	4	US-09-543-681A-679
20	41	40.6	480	3	US-09-134-000C-3598
21	41	40.6	480	3	US-09-134-000C-3598
22	41	40.6	752	1	US-08-244-193-1
23	41	40.6	307	1	US-08-244-193-2
24	40.5	40.1	846	1	US-09-543-681A-6849
25	40.5	40.1	846	1	US-08-449-103-4
26	40	39.6	846	1	US-08-451-883-4
27	40	39.6	1162	4	US-08-658-136-44
					Sequence 4008, Ap

28	39	38.6	20	2	US-07-894-063A-6	Sequence 6, Appli
29	39	38.6	30	1	US-08-262-037-16	Sequence 16, Appli
30	39	38.6	38	1	US-08-262-037-95	Sequence 95, Appli
31	39	38.6	47	1	US-08-262-037-96	Sequence 96, Appli
32	39	38.6	106	3	US-08-444-818-24	Sequence 24, Appli
33	39	38.6	176	3	US-08-444-818-28	Sequence 28, Appli
34	39	38.6	222	4	US-09-328-352-6740	Sequence 6740, Ap
35	39	38.6	228	3	US-08-911-423-6	Sequence 6, Appli
36	39	38.6	232	3	US-08-911-423-7	Sequence 7, Appli
37	39	38.6	234	4	US-09-512-363-2	Sequence 2, Appli
38	39	38.6	234	4	US-09-176-200-2	Sequence 2, Appli
39	39	38.6	240	4	US-09-512-363-6	Sequence 6, Appli
40	39	38.6	240	4	US-09-176-200-6	Sequence 6, Appli
41	39	38.6	241	3	US-08-911-423-4	Sequence 4, Appli
42	39	38.6	241	4	US-09-512-363-4	Sequence 4, Appli
43	39	38.6	241	4	US-09-512-363-28	Sequence 28, Appli
44	39	38.6	241	4	US-09-176-200-4	Sequence 4, Appli
45	39	38.6	311	3	US-08-911-423-8	Sequence 8, Appli

ALIGNMENTS

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RESULT 1
US-09-543-681A-7142
; Sequence 7142, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709,1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 7142
; LENGTH: 494
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-7142

Query Match      45.5%  Score 46; DB 4; Length 494;
Best Local Similarity 77.8%  Pred. No. 31;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      4 CEIVKQW 12
      |||||
Db      205 CEIVNNWH 213

RESULT 2
US-08-414-926A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Cooley Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,926A
FILING DATE: March 31, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-011/00US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-494-7622
TELEFAX: 415-857-0663
INFORMATION FOR SEQ. ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-414-926A-5

Query Match 42.6%; Score 43; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 69;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 2 WVCEIVKNOW 11
Db 307 WVCEPKHEW 316

RESULT 3
US-08-926-922-5
Sequence 5, Application US/08926922
Patent No. 5925751
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-926-922-5

Query Match 42.6%; Score 43; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 69;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 2 WVCEIVKNOW 11

Db 307 WVCEPKHEW 316

RESULT 4
US-09-253-682-5
Sequence 5, Application US/09253682
Patent No. 6040170
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/253,682
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-253-682-5

Query Match 42.6%; Score 43; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 69;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 2 WVCEIVKNOW 11
Db 307 WVCEPKHEW 316

RESULT 5
US-09-527-657-5
Sequence 5, Application US/09527657
Patent No. 6291236
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:

;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.25
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/527,657
;; FILING DATE: 17-Mar-2000
;; CLASSIFICATION: <Unknown>
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/926,922
;; FILING DATE: September 10, 1997
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Cseert, Luann
;; REGISTRATION NUMBER: 31,822
;; REFERENCE/DOCKET NUMBER: AVIR 11A
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 510-834-1448
;; TELEFAX: 510-839-7810
;;
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 399 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-527-657-5

Query Match 42.6%; Score 43; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 69;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEIVKNOW 11
||| |::|
Db 307 WVCEPKHEW 316

RESULT 6
US-09-892-100-5
; Sequence 5, Application US/09892100
; Patent No. 6635477
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Luann Cseert Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/892,100
; FILING DATE: 26-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseert, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; TYPE: PRT

;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 399 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5

Query Match 42.6%; Score 43; DB 4; Length 399;
Best Local Similarity 60.0%; Pred. No. 69;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEIVKNOW 11
||| |::|
Db 307 WVCEPKHEW 316

RESULT 7
PCT-US96-00994-4
; Sequence 4, Application PC/TUS9600994
; Sequence 4, Application US/
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: SELF-RENEWING PLURIPOTENT HEMATOPOIETIC
; TITLE OF INVENTION: STEM CELL COMPOSITIONS, METHODS OF USE,
; NUMBER OF SEQUENCES: 4
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/00994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US SN 08/462,108
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US SN 08/378,144
; FILING DATE: 24-JAN-1995
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 458 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; PCT-US96-00994-4

Query Match 42.6%; Score 43; DB 5; Length 458;
Best Local Similarity 36.4%; Pred. No. 80;
Matches 4; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEIVKNOWH 12
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Db 444 WICKIAEKXTH 454

RESULT 8
US-09-172-952-13
; Sequence 13, Application US/09172952
; Patent No. 6368793
; GENERAL INFORMATION:
; APPLICANT: Hoch, James
; APPLICANT: Dattois, Veronique
; TITLE OF INVENTION: METABOLIC SELECTION METHODS
; FILE REFERENCE: 234/191
; CURRENT APPLICATION NUMBER: US/09/172,952
; CURRENT FILING DATE: 1998-10-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 13
; LENGTH: 315
; TYPE: PRT

ORGANISM: ORF1
US-09-172-952-13

US-09-172-952-13

Query Match	41.6%;	Score 42;	DB 4;	Length 315;
Best Local Similarity	43.8%;	Pred. No. 76;		
Matches	7;	Conservative	3;	Mismatches 4;
				Indels 2;
				Gaps 1;

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QY      1 DWVCEIVKQWHHCNVL 16
         |||::|
Db      162 DWSCELVLE--HCDAM 175
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RESULT 9
US-09-100-193-2
TTC/09100193

Sequence 2 Application US//09100193
Patent No. 6153729
GENERAL INFORMATION:
APPLICANT: Gary S. Stehn et al.
TITLE OF INVENTION: NUCLEAR MATRIX TARGETING PEPTIDES AND USES THEREFORE
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
PATENTIN/09100193

Query Match	41.6%;	Score 42;	DB 3;	Length 415;
Best Local Similarity	28.6%;	Pred. No. 1e+02;		
Matches	4;	Conservative	6;	Mismatches 4; Indels 0; Gaps 0;
Qy	1	DWVCEIVKKNQWCHN	14	
	::: :::			
Db	73	NFLCSVLPESHMKRN	86	

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RESULT 10
US-09-100-193-3
; Sequence 3, Application US/09100193
; Patent No. 6153729
; GENERAL INFORMATION:
; APPLICANT: Gary S. Stein et al.
; TITLE OF INVENTION: NUCLEAR MATRIX TARGETING PEPTIDES AND USES THEREFORE
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
;

```

```

1 ADDRESS: LAHIVE & COCKFIELD
2 STREET: 28 State Street
3 City: Boston
4 STATE: Massachusetts
5 COUNTRY: USA
6 ZIP: 02109
7
8 COMPUTER READABLE FORM:
9 MEDIUM TYPE: Floppy disk
10 COMPUTER: IBM PC compatible
11 OPERATING SYSTEM: PC-DOS/MS-DOS
12 SOFTWARE: Patent Release #1.0, Version #1.25
13 CURRENT APPLICATION DATA:
14 APPLICATION NUMBER: US/09/100,193
15 FILING DATE:
16 CLASSIFICATION:
17 PRIOR APPLICATION DATA:
18 APPLICATION NUMBER: US 60/050,104
19 FILING DATE: 20-JUNE-1997
20 ATTORNEY/AGENT INFORMATION:
21 NAME: Jane E. Remillard
22 REGISTRATION NUMBER: 38,872
23 REFERENCE/DOCKET NUMBER: UMM-024
24 TELECOMMUNICATION INFORMATION:
25 TELEPHONE: (617)227-7400
26 TELEFAX: (617)742-4214
27
28 INFORMATION FOR SEQ ID NO: 3:
29 SEQUENCE CHARACTERISTICS:
30 LENGTH: 513 amino acids
31 TYPE: amino acid
32 TOPOLOGY: linear
33 MOLECULE TYPE: peptide
34 FRAGMENT TYPE: internal
35
36 US-09-100-193-3

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Query Match	41.6%;	Score 42;	DB 3;	Length 513;
Best Local Similarity	28.6%;	Pred. No. 1.3e+02;		
Matches	4;	Conservative	6;	Mismatches 4;
			Indels	0;
			Gaps	0

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QY      1 DWVCEIVKQWMCN 14  
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Db     112 NFLCSVLP SHWRCN 125
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// RESULT 11
// US-09-086-663A-79
// Sequence 79, Application US/09086663A
// Patent No. 6518063
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// GENERAL INFORMATION:
// APPLICANT: DUCI, PATICIA
// TITLE OF INVENTION: OSF2/CBPA1 COMPOSITIONS AND METHODS OF USE
// FILE REFERENCE: UTSC:525
// CURRENT APPLICATION NUMBER: US/09/086,663A
// CURRENT FILING DATE: 1998-05-29
// PRIOR APPLICATION NUMBER: 60/080,189
// PRIOR FILING DATE: 1998-03-24
// PRIOR APPLICATION NUMBER: 60/048,430
// PRIOR FILING DATE: 1997-05-29
// NUMBER OF SEQ ID NOS: 83
// SOFTWARE: PatentIn Ver. 2.1
// SEQ ID NO 79
// LENGTH: 521
// TYPE: PRT
// ORGANISM: Artificial Sequence
// FEATURE:
// OTHER INFORMATION: Description of Artificial Sequence: Synthetic
// US-09-086-663A-79

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Query Match	41.6%;	Score 42;	DB 4;	Length 521;
Best Local Similarity	28.6%;	Pred. No. 1.3e+02;		
Matches	4;	Conservative	6;	Mismatches 4; Indels 0; Gaps 0;

Db 120 NFLCSVLP SHWRCN 133

RESULT 12

US-09-086-663A-81
; Sequence 81, Application US/09086663A
; Patent No. 6518063
; GENERAL INFORMATION:
; APPLICANT: DUCY, PATRICIA
; TITLE OF INVENTION: OSF2/CBFAI COMPOSITIONS AND METHODS OF USE
; FILE REFERENCE: UTSC:525
; CURRENT APPLICATION NUMBER: US/09/086,663A
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 60/080,189
; PRIOR FILING DATE: 1998-03-24
; PRIOR APPLICATION NUMBER: 60/048,430
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 81
; LENGTH: 521
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-086-663A-81

Query Match 41.6%; Score 42; DB 4; Length 521;
Best Local Similarity 28.6%; Pred. No. 1.3e+02;
Matches 4; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWCHN 14
Db 120 NFLCSVLP SHWRCN 133

RESULT 13

US-09-086-663A-82
; Sequence 82, Application US/09086663A
; Patent No. 6518063
; GENERAL INFORMATION:
; APPLICANT: DUCY, PATRICIA
; APPLICANT: KARSENTY, GERARD
; TITLE OF INVENTION: OSF2/CBFAI COMPOSITIONS AND METHODS OF USE
; FILE REFERENCE: UTSC:525
; CURRENT APPLICATION NUMBER: US/09/086,663A
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 60/080,189
; PRIOR FILING DATE: 1998-03-24
; PRIOR APPLICATION NUMBER: 60/048,430
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 82
; LENGTH: 528
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-086-663A-82

Query Match 41.6%; Score 42; DB 4; Length 528;
Best Local Similarity 28.6%; Pred. No. 1.3e+02;
Matches 4; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWCHN 14
Db 127 NFLCSVLP SHWRCN 140

RESULT 14
US-09-086-663A-71
; Sequence 71, Application US/09086663A
; Patent No. 6518063
; GENERAL INFORMATION:

; APPLICANT: DUCY, PATRICIA
; APPLICANT: KARSENTY, GERARD
; TITLE OF INVENTION: OSF2/CBFAI COMPOSITIONS AND METHODS OF USE
; FILE REFERENCE: UTSC:525
; CURRENT APPLICATION NUMBER: US/09/086,663A
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 60/080,189
; PRIOR FILING DATE: 1998-03-24
; PRIOR APPLICATION NUMBER: 60/048,430
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 71
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-086-663A-71

Query Match 41.6%; Score 42; DB 4; Length 548;
Best Local Similarity 28.6%; Pred. No. 1.3e+02;
Matches 4; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWCHN 14
Db 127 NFLCSVLP SHWRCN 140

RESULT 15
US-09-086-663A-2
; Sequence 2, Application US/09086663A
; Patent No. 6518063
; GENERAL INFORMATION:
; APPLICANT: DUCY, PATRICIA
; APPLICANT: KARSENTY, GERARD
; TITLE OF INVENTION: OSF2/CBFAI COMPOSITIONS AND METHODS OF USE
; FILE REFERENCE: UTSC:525
; CURRENT APPLICATION NUMBER: US/09/086,663A
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 60/080,189
; PRIOR FILING DATE: 1998-03-24
; PRIOR APPLICATION NUMBER: 60/048,430
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-086-663A-2

Query Match 41.6%; Score 42; DB 4; Length 596;
Best Local Similarity 28.6%; Pred. No. 1.5e+02;
Matches 4; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWCHN 14
Db 195 NFLCSVLP SHWRCN 208

Search completed: September 8, 2004, 12:58:32
Job time : 13.2 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds

(Without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517a-115

Sequence: 1 DWCEWFKPQWICNL 16

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Maximum Match 100%

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Published Applications AA:*
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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	107	100.0	16	11	US-09-825-517a-115
2	96	89.7	16	11	US-09-825-517a-68
3	93	86.9	16	11	US-09-825-517a-130
4	92	86.0	16	11	US-09-825-517a-104
5	90	84.1	16	11	US-09-825-517a-144
6	88	82.2	16	11	US-09-825-517a-100
7	85	79.4	16	11	US-09-825-517a-54
8	85	79.4	16	11	US-09-825-517a-86
9	85	79.4	16	11	US-09-825-517a-105
10	85	79.4	16	11	US-09-825-517a-112
11	85	79.4	16	11	US-09-825-517a-122
12	85	79.4	16	11	US-09-825-517a-138
13	85	79.4	16	11	US-09-825-517a-139
14	85	79.4	16	11	US-09-825-517a-140
15	85	79.4	16	11	US-09-825-517a-143

16	84	78.5	16	11	US-09-825-517a-125	Sequence 125, App
17	84	78.5	16	11	US-09-825-517a-142	Sequence 142, App
18	83	77.6	16	11	US-09-825-517a-141	Sequence 141, App
19	83	77.6	16	11	US-09-825-517a-146	Sequence 146, App
20	83	77.6	16	11	US-09-825-517a-148	Sequence 148, App
21	83	77.6	16	11	US-09-825-517a-150	Sequence 150, App
22	82	76.6	16	11	US-09-825-517a-59	Sequence 59, App
23	82	76.6	16	11	US-09-825-517a-75	Sequence 75, App
24	82	76.6	16	11	US-09-825-517a-126	Sequence 126, App
25	82	76.6	16	11	US-09-825-517a-137	Sequence 137, App
26	81	75.7	16	11	US-09-825-517a-103	Sequence 103, App
27	80	74.8	16	11	US-09-825-517a-76	Sequence 76, App
28	79	73.8	16	11	US-09-825-517a-91	Sequence 91, App
29	79	73.8	16	11	US-09-825-517a-101	Sequence 101, App
30	78	72.9	16	11	US-09-825-517a-56	Sequence 56, App
31	77	72.0	16	11	US-09-825-517a-67	Sequence 67, App
32	77	72.0	16	11	US-09-825-517a-107	Sequence 107, App
33	77	72.0	16	11	US-09-825-517a-117	Sequence 117, App
34	76	71.0	16	11	US-09-825-517a-80	Sequence 80, App
35	76	71.0	16	11	US-09-825-517a-106	Sequence 106, App
36	76	71.0	16	11	US-09-825-517a-147	Sequence 147, App
37	75	70.1	16	11	US-09-825-517a-109	Sequence 109, App
38	74	69.2	16	11	US-09-825-517a-49	Sequence 49, App
39	74	69.2	16	11	US-09-825-517a-135	Sequence 135, App
40	74	69.2	16	11	US-09-825-517a-151	Sequence 151, App
41	74	69.2	16	11	US-09-825-517a-82	Sequence 82, App
42	73	68.2	16	11	US-09-825-517a-97	Sequence 97, App
43	73	68.2	16	11	US-09-825-517a-128	Sequence 128, App
44	73	68.2	16	11	US-09-825-517a-55	Sequence 55, App
45	72	67.3	16	11	US-09-825-517a-128	Sequence 128, App

ALIGNMENTS

RESULT 1
US-09-825-517a-115
; Sequence 115, Application US/09825517a
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421,1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517a
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517a-115

Query Match 100.0%; Score 107; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DWCEWFKPQWICNL 16
Db 1 DWCEWFKPQWICNL 16

RESULT 2
US-09-825-517a-68
; Sequence 68, Application US/09825517a
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      89.7%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 DWVCEWFKPQWMCNLL 16
DB      1 DWVCEWFKPQWMCNPL 16

RESULT 3
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match      86.9%; Score 93; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.6e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY      1 DWVCEWFKPQWMCNLL 16
DB      1 DWVCEWFKPQWMCNML 16

RESULT 4
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match      86.0%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1e-05;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY      1 DWVCEWFKPQWMCNLL 16
DB      1 DWVCEWFKPQWMCNLL 16

RESULT 5
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match      84.1%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.9e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY      1 DWVCEWFKPQWMCNLL 16
DB      1 DWVCEWFKPQWMCNSL 16

RESULT 6
US-09-825-517A-100
; Sequence 100, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 16
; TYPE: PRT
```



```
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-100
```

```
Query Match      82.2% Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.6e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 DWCEWFKPQWICNLL 16
      ||||| ||||| |||||
Db      1 DWCEWFKPQWICNLL 16
```

```
RESULT 7
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54
```

```
Query Match      79.4% Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWCEWFKPQWICNLL 16
      ||||| ||||| |||||
Db      1 DWCEWFKPQWICNLL 16
```

```
RESULT 8
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86
```

```
Query Match      79.4% Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9e-05;
```

```
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY      1 DWCEWFKPQWICNLL 16
      ||||| ||||| |||||
Db      1 DWCEWFKPQWICNLL 16
```

```
RESULT 9
US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105
```

```
Query Match      79.4% Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 DWCEWFKPQWICNLL 16
      ||||| ||||| |||||
Db      1 DWCEWFKPQWICNLL 16
```

```
RESULT 10
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112
```

```
Query Match      79.4% Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWCEWFKPQWICNLL 16
      ||||| ||||| |||||
Db      1 DWCEWFKPQWICNLL 16
```

RESULT 11
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match 79.4%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKQWICNLL 16
DB 1 DWVCEWFKQWICNLL 16

RESULT 12
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match 79.4%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKQWICNLL 16
DB 1 DWVCEWFKQWICNLL 16

RESULT 13
US-09-825-517A-139
; Sequence 139, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-139

Query Match 79.4%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWFKQWICNLL 16
DB 1 DWVCEWFKQWICNLL 16

RESULT 14
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match 79.4%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKQWICNLL 16
DB 1 DWVCEWFKQWICNLL 16

RESULT 15
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345

; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match 79.4%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 1 DWVCEMFKPOWICNML 16
Db 1 DWVCEWLKMQACNML 16

Search completed: September 8, 2004, 14:25:06
Job time : 45.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(Without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-115

Perfect score: 107

Sequence: 1 DWCEWFKPQWICNTL 16

Scoring table:

BIOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*
3: /cgn2_6/prodata/2/1aa/5A_COMB.pep:*
4: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*
5: /cgn2_6/prodata/2/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/2/1aa/Backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	45.8	677	3	US-09-061-768A-4
2	49	45.8	677	4	US-09-764-246-4
3	48	44.9	71	4	US-09-621-976-5666
4	47	43.9	393	1	US-08-689-974-4
5	47	43.9	393	3	US-09-058-376-4
6	46	43.0	24	1	US-08-484-635-86
7	46	43.0	24	2	US-08-484-631-86
8	46	43.0	24	2	US-08-827-570-86
9	46	43.0	501	4	US-09-465-519-2
10	46	43.0	501	3	US-09-465-519-4
11	45.5	42.5	157	4	US-09-461-474-14
12	45.5	42.5	474	3	US-09-461-474-10
13	45	42.1	326	1	US-08-118-270-39
14	45	42.1	326	5	PCT-0693-08528-39
15	45	42.1	342	3	US-08-988-876-9
16	44.5	41.6	448	3	US-09-461-474-8
17	44	41.1	89	4	US-09-621-976-7155
18	44	40.2	26	1	US-08-484-635-89
19	43	40.2	26	2	US-08-484-631-89
20	43	40.2	26	2	US-08-827-570-89
21	42.5	39.7	51	4	US-09-345-236B-79
22	42	39.3	56	1	US-08-328-256-9
23	42	39.3	63	4	US-09-497-421-47
24	42	39.3	321	4	US-09-171-461-22
25	42	39.3	486	1	US-09-252-991A-31879
26	42	39.3	496	4	US-08-328-256-12
27	42	39.3	548	6	5256558-5

28	42	39.3	1074	4	US-09-252-991A-21193	Sequence 21193, A
29	41	38.3	21	4	US-09-337-227C-27	Sequence 27, Appl
30	41	38.3	21	4	US-09-723-251A-27	Sequence 27, Appl
31	41	38.3	340	4	US-09-134-001C-3709	Sequence 3709, Appl
32	41	38.3	399	4	US-09-252-991A-18242	Sequence 18242, A
33	41	38.3	423	3	US-08-943-714-9	Sequence 9, Appl
34	41	38.3	444	4	US-09-721-870-42	Sequence 42, Appl
35	41	38.3	487	4	US-09-134-000C-6001	Sequence 6001, Ap
36	40	37.4	108	4	US-09-107-532A-6130	Sequence 6130, Ap
37	40	37.4	133	4	US-09-252-991A-23595	Sequence 23595, A
38	40	37.4	179	4	US-09-342-325C-50	Sequence 50, Appl
39	40	37.4	179	4	US-09-342-325C-53	Sequence 53, Appl
40	40	37.4	380	4	US-09-335-586-1	Sequence 54, Appl
41	40	37.4	391	1	US-08-602-010A-6	Sequence 1, Appl
42	40	37.4	391	1	US-08-680-726A-6	Sequence 6, Appl
43	40	37.4	391	3	US-09-092-409-6	Sequence 6, Appl
44	40	37.4	439	3	US-09-457-046B-68	Sequence 68, Appl
45	40	37.4				

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOGGIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPIDOXENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSER: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0983
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-061-768A-4
Query Match 45.8%; Score 49; DB 3; Length 677;
Best Local Similarity 45.5%; Pred. No. 14;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 2 WCEWFKPQW 12

Db 88 WFCRWFLEWL 98

RESULT 2
US-09-764-246-4
Sequence 4, Application US/09764246

Patent No. 6649355
GENERAL INFORMATION:

APPLICANT: BRASH, ALAN R.
BOEGLIN, WILLIAM E.
JIRAKA, MITSUO

TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS

NUMBER OF SEQUENCES: 36

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARLES A. TAYLOR, JR.
STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD

CITY: DURHAM

STATE: NORTH CAROLINA

COUNTRY: USA

ZIP: 27707

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage

COMPUTER: IBM PC/XT/AT compatible

OPERATING SYSTEM: Windows 3.1

SOFTWARE: WORD PERFECT 6.1 and ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/764,246

FILING DATE: 17-Jan-2001

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: <Unknown>

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: ARLES A. TAYLOR, JR.

REGISTRATION NUMBER: 39,395

REFERENCE/DOCKET NUMBER: 1242/5

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919) 493-8000

TELEFAX: (919) 419-0383

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 677 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: unknown

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-764-246-4

Query Match 45.8%; Score 49; DB 4; Length 677;

Best Local Similarity 45.5%; Pred. No. 14;

Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCWFEPQMT 12

Db 88 WFCRWFLEWL 98

RESULT 3

US-09-621-976-5666

Sequence 5666, Application US/09621976

Patent No. 6639063

GENERAL INFORMATION:

APPLICANT: Dumas Milne Edwards, J.B.

APPLICANT: Joberet, S.

TITLE OF INVENTION: ESTs and Encoded Human Proteins.

FILE REFERENCE: GENSET.054PR2

CURRENT APPLICATION NUMBER: US/09/621,976

CURRENT FILING DATE: 2000-07-21

NUMBER OF SEQ ID NOS: 19335

SOFTWARE: Patent.pm

SEQ ID NO 5666

LENGTH: 71

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SIGNAL

LOCATION: -24...-1

US-09-621-976-5666

Query Match

Best Local Similarity 44.9%; Score 48; DB 4; Length 71;

Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEWFKPQMIC 13

Db 54 DWCEWFKPQMIC 66

RESULT 4

US-08-689-974-4

Sequence 4, Application US/08689974

Patent No. 5776732

GENERAL INFORMATION:

APPLICANT: Au-Young, Janice

APPLICANT: Hawkins, Phillip R.

APPLICANT: Murray, Lynn E.

TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: U.S.

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/689,974

FILING DATE: Filed Herewith

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 393 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

IMMEDIATE SOURCE:

LIBRARY: Genbank

CLONE: 459890

US-08-689-974-4

Query Match 43.9%; Score 47; DB 1; Length 393;

Best Local Similarity 47.1%; Pred. No. 16;

Matches 8; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

QY 2 WVCWFK--PQMICNL 16

Db 360 WLAWFKMGSSMLCILL 376

RESULT 5

US-09-058-376-4

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1 Sequence 4 Application US/09058376
2 Patent No. 6080841
3 GENERAL INFORMATION:
4 APPLICANT: Au-Young, Janice
5 APPLICANT: Hawkins, Phillip R.
6 APPLICANT: Murray, Lynn E.
7 TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
8 NUMBER OF SEQUENCES: 5
9 CORRESPONDENCE ADDRESS:
10 ADDRESSEE: Incyte Pharmaceuticals, Inc.
11 STREET: 3174 Porter Drive
12 City: Palo Alto
13 STATE: CA
14 COUNTRY: U.S.
15 ZIP: 94304
16 COMPUTER READABLE FORM:
17 MEDIUM TYPE: Diskette
18 COMPUTER: IBM compatible
19 OPERATING SYSTEM: DOS
20 SOFTWARE: FastSeq Version 1.5
21 CURRENT APPLICATION DATA:
22 APPLICATION NUMBER: US/09/058,376
23 FILING DATE:
24 PRIORITY APPLICATION DATA:
25 APPLICATION NUMBER: US/08/689,974
26 FILING DATE:
27 ATTORNEY/AGENT INFORMATION:
28 NAME: Billings, Lucy J.
29 REGISTRATION NUMBER: 36,749
30 REFERENCE/DOCKET NUMBER: PF-0113 US
31 TELECOMMUNICATION INFORMATION:
32 TELEPHONE: 415-855-0555
33 TELEFAX: 415-845-4166
34 INFORMATION FOR SEQ ID NO: 4:
35 SEQUENCE CHARACTERISTICS:
36 LENGTH: 393 amino acids
37 TYPE: amino acid
38 STRANDEDNESS: single
39 TOPOLOGY: linear
40 MOLECULE TYPE: peptide
41 IMMEDIATE SOURCE:
42 LIBRARY: GenBank
43 CLONE: 459890
44 US-09-058-376-4
45
46 Query Match 43.9% Score 47; DB 3; Length 393;
47 Best Local Similarity 47.1%; Pred. No. 16;
48 Matches 8; Conservative 2; Mismatches 5; Indels 2; Gaps 1
49
50 QY 2 VVCWFK--PWICNML 16
51 : : : : : : : :
52 : : : : : : : :
53 Db 360 WLAVFKMGSSWLCLL 376
54
55 RESULT 6
56 US-08-484-635-86
57 Sequence 86, Application US/08484635
58 Patent No. 5773569
59 GENERAL INFORMATION:
60 APPLICANT: Wrighton, Nicholas C.
61 APPLICANT: Dower, William J.
62 APPLICANT: Chang, Ray S.
63 APPLICANT: Kashyap, Arun K.
64 APPLICANT: Joliffe, Linda K.
65 APPLICANT: Johnson, Dana
66 APPLICANT: Mulcahy, Linda
67 TITLE OF INVENTION: Compounds and Peptides That Bind to the
68 Erythropoietin Receptor
69 NUMBER OF SEQUENCES: 259
70 CORRESPONDENCE ADDRESS:
71 ADDRESSEE: Townsend and Townsend and Crew
72 STREET: One Market Plaza, Stewart Street Tower
73 City: San Francisco

```

```

? STATE: California
? COUNTRY: USA
? ZIP: 94105-1492
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/484,635
? FILING DATE: 07-JUN-1995
? CLASSIFICATION: 514
? PRIORITY APPLICATION DATA:
? APPLICATION NUMBER: US 08/155,240
? FILING DATE: 19-NOV-1993
? ATTORNEY/AGENT INFORMATION:
? NAME: Garrett-Wackowski, Eugenia
? REGISTRATION NUMBER: 37,330
? REFERENCE/DOCKET NUMBER: 16528A-43-1-1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (415) 543-9600
? TELEFAX: (415) 543-5043
? INFORMATION FOR SEQ ID NO: 86:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 24 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
US-08-484-635-86

Query Match          43.0% Score 46; DB 1; Length 24;
Best Local Similarity 38.5%; Pred.No. 1.1;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Oy      1 DWCEWEPKQWIC 13
Db      10 EYCCQWCPDWLC 22

RESULT 7
US-08-484-631-86
? Sequence 86, Application US/08484631
? Patent No. 5830851
? GENERAL INFORMATION:
? APPLICANT: Wrighton, Nicholas C.
? APPLICANT: Dower, William J.
? APPLICANT: Chang, Ray S.
? APPLICANT: Kashyap, Arun K.
? APPLICANT: Jolliffe, Linda K.
? APPLICANT: Johnson, Dana
? APPLICANT: Mulcahy, Linda
? TITLE OF INVENTION: Compounds and Peptides That Bind to the
? TITLE OF INVENTION: Blythropsletin Receptor
? NUMBER OF SEQUENCES: 259
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Townsend and Townsend and Crew
? STREET: One Market Plaza, Steuart Street Tower
? CITY: San Francisco
? STATE: California
? COUNTRY: USA
? ZIP: 94105-1492
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/484,631
? FILING DATE: 07-JUN-1995
? CLASSIFICATION: 514
? PRIORITY APPLICATION DATA:
? APPLICATION NUMBER: US 08/155,240

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FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-86

Query Match 43.0%; Score 46; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 1.1;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWCEWFKPQWIC 13
Db 10 EYVCQWGPDTWLC 22

RESULT 8
US-08-827-570-86
Sequence 86, Application US/08827570
Patent No. 5986047
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Tolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and peptides that bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,635
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid

STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-827-570-86

Query Match 43.0%; Score 46; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 1.1;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWCEWFKPQWIC 13
Db 10 EYVCQWGPDTWLC 22

RESULT 9
US-09-465-519-2
Sequence 2, Application US/09465519
Patent No. 640335
GENERAL INFORMATION:
APPLICANT: HAGIHARA, Hiroshi
APPLICANT: KITAYAMA, Kaori
APPLICANT: HAYASHI, Yasuhiro
APPLICANT: IGARASHI, Kazuaki
APPLICANT: OGAKI, Keiji
APPLICANT: ENDO, Katsuya
TITLE OF INVENTION: NOVEL AMYLASES
FILE REFERENCE: 2173-0118P
CURRENT APPLICATION NUMBER: US/09/465,519
CURRENT FILING DATE: 1999-12-16
EARLIER APPLICATION NUMBER: 10-362487 JAPAN
EARLIER FILING DATE: 1998-12-21
EARLIER APPLICATION NUMBER: 10-362488 JAPAN
EARLIER FILING DATE: 1998-12-21
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 501
TYPE: PRT
ORGANISM: Bacillus sp.
US-09-465-519-2

Query Match 43.0%; Score 46; DB 4; Length 501;
Best Local Similarity 75.0%; Pred. No. 30;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WVCWFKP 9
Db 359 WVADWFKP 366

RESULT 10
US-09-465-519-4
Sequence 4, Application US/09465519
Patent No. 640335
GENERAL INFORMATION:
APPLICANT: HAGIHARA, Hiroshi
APPLICANT: KITAYAMA, Kaori
APPLICANT: HAYASHI, Yasuhiro
APPLICANT: IGARASHI, Kazuaki
APPLICANT: ENDO, Keiji
APPLICANT: OGAKI, Katsuya
TITLE OF INVENTION: NOVEL AMYLASES
FILE REFERENCE: 2173-0118P
CURRENT APPLICATION NUMBER: US/09/465,519
CURRENT FILING DATE: 1999-12-16
EARLIER APPLICATION NUMBER: 10-362487 JAPAN
EARLIER FILING DATE: 1998-12-21
EARLIER APPLICATION NUMBER: 10-362488 JAPAN
EARLIER FILING DATE: 1998-12-21
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 501

TYPE: PRT
ORGANISM: Bacillus sp.
US-09-465-519-4

Query Match 43.0%; Score 46; DB 4; Length 501;
Best Local Similarity 75.0%; Pred. No. 30;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WVCWMP 9
DB 359 WVDWMP 366

RESULT 11
US-09-461-474-14
Sequence 14, Application US/09461474
Patent No. 6278042
GENERAL INFORMATION:
APPLICANT: Allen, Steve
APPLICANT: Rafalski, Antoni
APPLICANT: Sakai, Hajime
TITLE OF INVENTION: Plant Metal Transporters
FILE REFERENCE: B1303 US NA
CURRENT APPLICATION NUMBER: US/09/461,474
EARLIER FILING DATE: 1999-12-14
EARLIER APPLICATION NUMBER: 60/112,562
NUMBER OF SEQ ID NOS: 17
SOFTWARE: Microsoft Office 97
SEQ ID NO 14
LENGTH: 157
TYPE: PRT
ORGANISM: Triticum aestivum
US-09-461-474-14

Query Match 42.5%; Score 45.5; DB 3; Length 157;
Best Local Similarity 43.8%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 1; Indels 5; Gaps 1;

QY 6 WPKPOM----ICNLL 16
DB 42 WYKPKWIKIDICTLI 57

RESULT 12
US-09-461-474-10
Sequence 10, Application US/09461474
Patent No. 6278042
GENERAL INFORMATION:
APPLICANT: Allen, Steve
APPLICANT: Rafalski, Antoni
APPLICANT: Sakai, Hajime
TITLE OF INVENTION: Plant Metal Transporters
FILE REFERENCE: B1303 US NA
CURRENT APPLICATION NUMBER: US/09/461,474
EARLIER FILING DATE: 1999-12-14
EARLIER APPLICATION NUMBER: 60/112,562
NUMBER OF SEQ ID NOS: 17
SOFTWARE: Microsoft Office 97
SEQ ID NO 10
LENGTH: 474
TYPE: PRT
ORGANISM: Oryza sativa
US-09-461-474-10

Query Match 42.5%; Score 45.5; DB 3; Length 474;
Best Local Similarity 43.8%; Pred. No. 33;
Matches 7; Conservative 3; Mismatches 1; Indels 5; Gaps 1;

QY 6 WPKPOM----ICNLL 16
DB 359 WYKPKWIKIDICTLI 374

RESULT 13

US-08-118-270-39
Sequence 39, Application US/08118270
Patent No. 5508384
GENERAL INFORMATION:
APPLICANT: Murphy, Randall B.
APPLICANT: Schuster, David I.
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
NUMBER OF SEQUENCES: 348
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
City: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: 09-SEP-1993
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/943,236
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: MURPHY-2A
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 326 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-118-270-39

Query Match 42.1%; Score 45; DB 1; Length 326;
Best Local Similarity 60.0%; Pred. No. 26;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 6 WPKPOMINL 15
DB 66 WLPKPLCNL 75

RESULT 14
PCT-US93-08528-39
Sequence 39, Application PC/TUS9308528
GENERAL INFORMATION:
APPLICANT: New York University
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
NUMBER OF SEQUENCES: 348
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
City: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

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;
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08528
; FILING DATE: 09-SEP-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY=2 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-08528-39

Query Match      42.1%; Score 45; DB 5; Length 326;
Best Local Similarity 60.0%; Pred. No. 26;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      6 WFKPQWICNL 15
Db      66 WFLPKFICNL 75

RESULT 15
US-08-988-876-9
; Sequence 9, Application US/08988876
; Patent No. 6063596
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Bandman, Olga
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; TITLE OF INVENTION: G PROTEIN COUPLED RECEPTORS ASSOCIATED
; TITLE OF INVENTION: WITH IMMUNE RESPONSE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/988,876
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0441 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166

```

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;
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 49443
; US-08-988-876-9

Query Match      42.1%; Score 45; DB 3; Length 342;
Best Local Similarity 60.0%; Pred. No. 28;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      6 WFKPQWICNL 15
Db      83 WFLPKFICNL 92

Search completed: September 8, 2004, 12:58:31
Job time : 13.2 secs

```

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds

(Without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-114
Perfect score: 103
Sequence: 1 DWVCEFSKQWYCNPL 16

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep:*
10: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep:*
11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	103	100.0	16	11	US-09-825-517A-114
2	87	84.5	16	11	US-09-825-517A-78
3	82	79.6	16	11	US-09-825-517A-68
4	81	78.6	16	11	US-09-825-517A-95
5	81	78.6	16	11	US-09-825-517A-137
6	79	76.7	16	11	US-09-825-517A-113
7	79	76.7	16	11	US-09-825-517A-135
8	78	75.7	16	11	US-09-825-517A-75
9	78	75.7	16	11	US-09-825-517A-101
10	78	75.7	16	11	US-09-825-517A-117
11	78	75.7	16	11	US-09-825-517A-144
12	77	74.8	16	11	US-09-825-517A-147
13	77	74.8	16	11	US-09-825-517A-60
14	77	74.8	16	11	US-09-825-517A-65
15	77	74.8	16	11	US-09-825-517A-86

16	77	74.8	16	11	US-09-825-517A-91	Sequence 91, App1
17	77	74.8	16	11	US-09-825-517A-141	Sequence 141, App1
18	76	73.8	16	11	US-09-825-517A-49	Sequence 49, App1
19	76	73.8	16	11	US-09-825-517A-149	Sequence 149, App1
20	76	73.8	16	11	US-09-825-517A-150	Sequence 150, App1
21	76	73.8	16	11	US-09-825-517A-151	Sequence 151, App1
22	75	72.8	16	11	US-09-825-517A-56	Sequence 56, App1
23	75	72.8	16	11	US-09-825-517A-93	Sequence 93, App1
24	75	72.8	16	11	US-09-825-517A-130	Sequence 130, App1
25	74	71.8	16	11	US-09-825-517A-59	Sequence 59, App1
26	74	71.8	16	11	US-09-825-517A-88	Sequence 88, App1
27	74	71.8	16	11	US-09-825-517A-107	Sequence 107, App1
28	74	71.8	16	11	US-09-825-517A-118	Sequence 118, App1
29	74	71.8	16	11	US-09-825-517A-123	Sequence 123, App1
30	74	71.8	16	11	US-09-825-517A-146	Sequence 146, App1
31	73	70.9	16	11	US-09-825-517A-80	Sequence 80, App1
32	73	70.9	16	11	US-09-825-517A-104	Sequence 104, App1
33	73	70.9	16	11	US-09-825-517A-133	Sequence 133, App1
34	73	70.9	16	11	US-09-825-517A-148	Sequence 148, App1
35	72	69.9	16	11	US-09-825-517A-67	Sequence 67, App1
36	72	69.9	16	11	US-09-825-517A-76	Sequence 76, App1
37	71	68.9	16	11	US-09-825-517A-54	Sequence 54, App1
38	71	68.9	16	11	US-09-825-517A-61	Sequence 61, App1
39	71	68.9	16	11	US-09-825-517A-100	Sequence 100, App1
40	71	68.9	16	11	US-09-825-517A-105	Sequence 105, App1
41	71	68.9	16	11	US-09-825-517A-125	Sequence 125, App1
42	71	68.9	16	11	US-09-825-517A-126	Sequence 126, App1
43	71	68.9	16	11	US-09-825-517A-127	Sequence 127, App1
44	71	68.9	16	11	US-09-825-517A-138	Sequence 138, App1
45	71	68.9	16	11	US-09-825-517A-142	Sequence 142, App1

ALIGNMENTS

```
RESULT 1
US-09-825-517A-114
; Sequence 114, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 114
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-114

Query Match      100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEFSKQWYCNPL 16
Db      1 DWVCEFSKQWYCNPL 16

RESULT 2
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
```

APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 78
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match 84.5%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEFSKVMQYCNPL 16
Db 1 DWCEFMKHQWFCNPL 16

RESULT 3
US-09-825-517A-68
Sequence 68, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 68
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match 79.6%; Score 82; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9.9e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEFSKVMQYCNPL 16
Db 1 DWCEWFKPQWFCNPL 16

RESULT 4
US-09-825-517A-95
Sequence 95, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24

PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 95
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95

Query Match 78.6%; Score 81; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00014;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEFSKVMQYCNPL 16
Db 1 DWCEYAKNQWNCNPL 16

RESULT 5
US-09-825-517A-137
Sequence 137, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 137
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match 78.6%; Score 81; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEFSKVMQYCNPL 16
Db 1 DWCEFFKSQWYCNIL 16

RESULT 6
US-09-825-517A-113
Sequence 113, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:
APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DYX-016.1 (3421.1005-001)
CURRENT APPLICATION NUMBER: US/09/825,517A
CURRENT FILING DATE: 2003-03-24
PRIORITY APPLICATION NUMBER: US 09/541,345
PRIORITY FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 113
LENGTH: 16
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-113

Query Match 76.7%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00026;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNPL 16
DB 1 DWCEYVKSQWSCNPL 16

RESULT 7
US-09-825-517A-135

Sequence 135, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:

APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
CURRENT APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 135
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135

Query Match 76.7%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00026;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNPL 16
DB 1 DWCEFDKQWCVNPL 16

RESULT 8
US-09-825-517A-75

Sequence 75, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:

APPLICANT: Ladner, Robert C
APPLICANT: Rondon, Isaac J
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
CURRENT APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 75
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00036;

Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNPL 16
DB 1 DWCEFFKQWFCNPL 16

RESULT 9
US-09-825-517A-101

Sequence 101, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:

APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
CURRENT APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 101
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-101

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00036;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNPL 16
DB 1 DWCEWSKQWSCNPL 16

RESULT 10
US-09-825-517A-117

Sequence 117, Application US/09825517A
Publication No. US20030203415A1
GENERAL INFORMATION:

APPLICANT: Rondon, Isaac J
APPLICANT: Ladner, Robert C
TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
FILE REFERENCE: DXX-016.1 (3421.1005-001)
CURRENT FILING DATE: 2003-03-24
CURRENT APPLICATION NUMBER: US/09/825,517A
PRIOR FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 117
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-117

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00036;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNPL 16
DB 1 DWCEWGSKQWTCNPL 16

```
RESULT 11
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match          75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00036;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWCEFSKYQWYCNPL 16
Db      1 DWCEWLKPMQWYCNPL 16

RESULT 12
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match          75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00036;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWCEFSKYQWYCNPL 16
Db      1 DWCEFSIKSQWYCNPL 16

RESULT 13
US-09-825-517A-60
; Sequence 60, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
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; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-60

Query Match          74.8%; Score 77; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.0005;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWCEFSKYQWYCNPL 16
Db      1 DWCEIDKQWYCNPL 16

RESULT 14
US-09-825-517A-65
; Sequence 65, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-65

Query Match          74.8%; Score 77; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.0005;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWCEFSKYQWYCNPL 16
Db      1 DWCELVKAQWYCNPL 16

RESULT 15
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds

(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-114
Perfect score: 103

Sequence: 1 DWCEFSKVCWYCNPL 16

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Issued Patents AA:*
1: /cgn2_6/ptodata/2/1aa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/1aa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/1aa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/1aa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/1aa/PCTUS COMB.pep.*
6: /cgn2_6/ptodata/2/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	46.6	22	1	US-08-484-635-181
2	48	46.6	22	2	US-08-484-631-181
3	48	46.6	22	2	US-08-827-570-181
4	46	44.7	20	1	US-08-484-135-10
5	46	44.7	20	1	US-08-484-135-76
6	46	44.7	20	1	US-08-484-635-10
7	46	44.7	20	2	US-08-484-631-10
8	46	44.7	20	2	US-08-827-570-10
9	46	44.7	20	3	US-08-905-310-4
10	46	44.7	20	4	US-09-428-082B-90
11	46	44.7	20	4	US-09-428-082B-1029
12	46	44.7	21	4	US-09-337-227C-27
13	46	44.7	21	4	US-09-723-251A-27
14	45	43.7	20	1	US-08-484-135-62
15	45	43.7	20	1	US-08-484-635-37
16	45	43.7	20	2	US-08-484-631-37
17	45	43.7	20	2	US-08-827-570-37
18	44.5	43.2	387	4	US-09-638-937-9
19	44	42.7	20	1	US-08-484-135-78
20	44	42.7	20	1	US-08-484-631-40
21	44	42.7	20	2	US-08-827-570-40
22	44	42.7	20	2	US-08-484-635-56
23	44	42.7	23	2	US-08-484-631-56
24	44	42.7	23	2	US-08-827-570-56
25	44	42.7	20	1	US-08-484-135-9
26	43	41.7	20	1	US-08-484-135-11
27	43	41.7	20	1	US-08-484-135-11

28	43	41.7	20	1	US-08-484-135-28	Sequence 28, Appl
29	43	41.7	20	1	US-08-484-135-45	Sequence 45, Appl
30	43	41.7	20	1	US-08-484-135-87	Sequence 87, Appl
31	43	41.7	20	1	US-08-484-635-9	Sequence 9, Appl
32	43	41.7	20	1	US-08-484-635-34	Sequence 34, Appl
33	43	41.7	20	1	US-08-484-635-34	Sequence 34, Appl
34	43	41.7	20	2	US-08-484-631-11	Sequence 11, Appl
35	43	41.7	20	2	US-08-484-631-11	Sequence 11, Appl
36	43	41.7	20	2	US-08-827-570-9	Sequence 9, Appl
37	43	41.7	20	2	US-08-827-570-11	Sequence 11, Appl
38	43	41.7	20	2	US-08-827-570-34	Sequence 34, Appl
39	43	41.7	20	2	US-08-827-570-34	Sequence 34, Appl
40	43	41.7	20	3	US-08-905-310-3	Sequence 3, Appl
41	43	41.7	20	3	US-08-905-310-5	Sequence 5, Appl
42	43	41.7	20	4	US-09-428-082B-88	Sequence 88, Appl
43	43	41.7	20	4	US-09-428-082B-89	Sequence 89, Appl
44	43	41.7	20	4	US-09-428-082B-1026	Sequence 1026, Ap
45	43	41.7	20	4	US-09-428-082B-1030	Sequence 1030, Ap

ALIGNMENTS

RESULT 1
US-08-484-635-181

Sequence 181, Application US/08484635

Patent No. 5773569

GENERAL INFORMATION:

APPLICANT: Wrighton, Nicholas C.

APPLICANT: Dower, William J.

APPLICANT: Chang, Ray S.

APPLICANT: Kashyap, Arun K.

APPLICANT: Jolliffe, Linda K.

APPLICANT: Johnson, Dana

APPLICANT: Mulcahy, Linda

TITLE OF INVENTION: Compounds and Peptides That Bind to the

TITLE OF INVENTION: Blythroleptin Receptor

NUMBER OF SEQUENCES: 259

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew

STREET: One Market Plaza, Stewart Street Tower

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94105-1492

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484, 635

FILING DATE: 07-JUN-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/155,940

FILING DATE: 19-NOV-1993

ATTORNEY/AGENT INFORMATION:

NAME: Garrett-Wackowski, Eugenia

REGISTRATION NUMBER: 37,130

REFERENCE/DOCKET NUMBER: 16528A-43-1-1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 543-9600

TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 181:

SEQUENCE CHARACTERISTICS:

LENGTH: 22 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-484-635-181

Query Match 46.6%; Score 48; DB 1; Length 22;
Best Local Similarity 42.9%; Pred. No. 0.97;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCERSKQWYCNP 15
DB 5 YICHGPGVTWCKP 18

RESULT 2

US-08-484-631-181
Sequence 181, Application US/08484631
Patent No. 5830851
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,631
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 181:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-181

Query Match 46.6%; Score 48; DB 2; Length 22;
Best Local Similarity 42.9%; Pred. No. 0.97;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCERSKQWYCNP 15
DB 5 YICHGPGVTWCKP 18

RESULT 3
US-08-827-570-181
Sequence 181, Application US/08827570
Patent No. 5960047
GENERAL INFORMATION:

APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,635
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 181:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-827-570-181

Query Match 46.6%; Score 48; DB 2; Length 22;
Best Local Similarity 42.9%; Pred. No. 0.97;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCERSKQWYCNP 15
DB 5 YICHGPGVTWCKP 18

RESULT 4
US-08-484-135-10
Sequence 10, Application US/08484135
Patent No. 5767078
GENERAL INFORMATION:
APPLICANT: Johnson, Dana L.
APPLICANT: Zivin, Robert A.
TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: Frank S. DiGiulio
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: U.S.A.
ZIP: 11530
COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,135
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DiGiullo, Frank S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 9594
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742-4343
TELEFAX: (516) 742-4366
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-135-10

Query Match 44.7%; Score 46; DB 1; Length 20;
Best Local Similarity 33.3%; Pred. No. 1.7;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNP 15
Db 3 NYMCHFGPIWVCRP 17

RESULT 5
US-08-484-135-76
Sequence 76, Application US/08484135
Patent No. 5767078
GENERAL INFORMATION:
APPLICANT: Johnson, Dana L
TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: Frank S. DiGiullo
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: U.S.A..
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,135
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DiGiullo, Frank S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 9594
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742-4343
TELEFAX: (516) 742-4366
INFORMATION FOR SEQ ID NO: 76:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-135-76

Query Match 44.7%; Score 46; DB 1; Length 20;
Best Local Similarity 33.3%; Pred. No. 1.7;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNP 15
Db 3 NYMCHFGPIWVCRP 17

RESULT 6
US-08-484-635-10
Sequence 10, Application US/08484635
Patent No. 5773569
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,635
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-635-10

Query Match 44.7%; Score 46; DB 1; Length 20;
Best Local Similarity 33.3%; Pred. No. 1.7;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEFSKQWYCNP 15
Db 3 NYMCHFGPIWVCRP 17

RESULT 7
US-08-484-631-10
Sequence 10, Application US/08484631
Patent No. 5830851

GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
TITLE OF INVENTION: Compounds and Peptides That Bind to the
NUMBER OF SEQUENCES: 259
Erythropoietin Receptor
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend and Crew
STREET: One Market Plaza, Steuart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,631
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-10
Query Match 44.7%; Score 46; DB 2; Length 20;
Best Local Similarity 33.3%; Pred. No. 1.7;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEFSKVQWYCNP 15
DB 3 NYMCHFGPIWVCRP 17

RESULT 8
US-08-827-570-10
Sequence 10, Application US/08827570
Patent No. 5986047
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
TITLE OF INVENTION: Compounds and Peptides That Bind to the
NUMBER OF SEQUENCES: 259
Erythropoietin Receptor
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend and Crew
STREET: One Market Plaza, Steuart Street Tower

CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,631
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-827-570-10

Query Match 44.7%; Score 46; DB 2; Length 20;
Best Local Similarity 33.3%; Pred. No. 1.7;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEFSKVQWYCNP 15
DB 3 NYMCHFGPIWVCRP 17

RESULT 9
US-08-905-310-4
Sequence 4, Application US/08905310
Patent No. 6077939
GENERAL INFORMATION:
APPLICANT: Wei, Ziping
APPLICANT: Menon-Rudolph, Sunitha
TITLE OF INVENTION: Polypeptides Having a Single Covalently Bound
TITLE OF INVENTION: N-Terminal Water-Soluble Polymer, and Related Methods,
FILE REFERENCE: SEQUENCE LISTING ORT 843
CURRENT APPLICATION NUMBER: US/08/905,310
CURRENT FILING DATE: 1997-08-01
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 20
TYPE: PRT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Description of Unknown Organism:peptide fragment
US-08-905-310-4

Query Match 44.7%; Score 46; DB 3; Length 20;
Best Local Similarity 33.3%; Pred. No. 1.7;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEFSKVQWYCNP 15
DB 3 NYMCHFGPIWVCRP 17

Db 3 NYMCHFGPITWVCRP 17

RESULT 10

US-09-428-082B-90
; Sequence 90, Application US/09428082B
; Patent No. 6660843
; GENERAL INFORMATION:
; APPLICANT: FEIGE, ULRICH
; APPLICANT: LIU, CHUAN-FA
; APPLICANT: CHEETHAM, JANET C.
; APPLICANT: BOONE, THOMAS CHARLES
; TITLE OF INVENTION: MODIFIED PEPTIDES AS THERAPEUTIC AGENTS
; FILE REFERENCE: A-527
; CURRENT APPLICATION NUMBER: US/09/428,082B
; PRIOR FILING DATE: 1999-10-22
; PRIOR APPLICATION NUMBER: 60/105,371
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 1133
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 90
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: EPO-MIMETIC PEPTIDE
US-09-428-082B-90

Query Match

Best Local Similarity 44.7%; Score 46; DB 4; Length 20;
Matches 5; Conservativity 33.3%; Pred. No. 1.7;
Mismatches 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DMVCEFSKVQWYCNP 15

Db 3 NYMCHFGPITWVCRP 17

RESULT 11

US-09-428-082B-1029
; Sequence 1029, Application US/09428082B
; Patent No. 6660843
; GENERAL INFORMATION:
; APPLICANT: FEIGE, ULRICH
; APPLICANT: LIU, CHUAN-FA
; APPLICANT: CHEETHAM, JANET C.
; APPLICANT: BOONE, THOMAS CHARLES
; TITLE OF INVENTION: MODIFIED PEPTIDES AS THERAPEUTIC AGENTS
; FILE REFERENCE: A-527
; CURRENT APPLICATION NUMBER: US/09/428,082B
; PRIOR FILING DATE: 1999-10-22
; PRIOR APPLICATION NUMBER: 60/105,371
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 1133
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1029
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: EPO-MIMETIC PEPTIDE
US-09-428-082B-1029

Query Match

Best Local Similarity 44.7%; Score 46; DB 4; Length 20;
Matches 5; Conservativity 33.3%; Pred. No. 1.7;
Mismatches 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DMVCEFSKVQWYCNP 15

Db 3 NYMCHFGPITWVCRP 17

RESULT 12

US-09-337-227C-27

; Sequence 27, Application US/09337227C

; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match

Best Local Similarity 44.7%; Score 46; DB 4; Length 21;
Matches 6; Conservativity 50.0%; Pred. No. 1.8;
Mismatches 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCESFSKVQWYC 13

Db 3 WVCRAAGPLQWLC 14

RESULT 13

US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2Cl.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match

Best Local Similarity 44.7%; Score 46; DB 4; Length 21;
Matches 6; Conservativity 50.0%; Pred. No. 1.8;
Mismatches 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCESFSKVQWYC 13

Db 3 WVCRAAGPLQWLC 14

```

RESULT 14
US-08-484-135-62
; Sequence 62, Application US/08484135
; Patent No. 5767078
; GENERAL INFORMATION:
; APPLICANT: Johnson, Dana L
; APPLICANT: Zivin, Robert A
; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Frank S. Digiglio
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: U.S.A..
; ZIP: 11530
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,135
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9994
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-484-135-62
;
Query Match 43.7%; Score 45; DB 1; Length 20;
Best local similarity 40.0%; Pred. No. 2.4;
Matches 6; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DMVCEFSKVQWYCNP 15
DB 3 DYNCRFGPLTWCKP 17

RESULT 15
US-08-484-635-37
; Sequence 37, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Stuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
;

```

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,635
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: ?
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-635-37

Query Match      43.7%; Score 45; DB 1; Length 20;
Best Local Similarity 40.0%; Pred. No. 2.4;
Matches        6; Conservative    2; Mismatches          7; Indels          0; Gaps          0.

QY      1 DMCCEFSKYOMYCNP 15
| : | : | : | : | : | : |
Db      3 DYNCRFGLTWCKP 17

```

Search completed: September 8, 2004, 12:58:30
Job time : 12.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds

(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-113

Perfect score: 101

Sequence: 1 DWCEYKSKQSCNPL 16

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*
1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/prodata/1/pubpaa/PCTUS_NEW_PUB.pep:*
6: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*
7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep:*
10: /cgn2_6/prodata/1/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/prodata/1/pubpaa/US10D_PUBCOMB.pep:*
17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	101	100.0	16	11	US-09-825-517A-113
2	91	90.1	16	11	US-09-825-517A-95
3	84	83.2	16	11	US-09-825-517A-149
4	83	82.2	16	11	US-09-825-517A-78
5	83	82.2	16	11	US-09-825-517A-117
6	82	81.2	16	11	US-09-825-517A-93
7	82	81.2	16	11	US-09-825-517A-105
8	81	80.2	16	11	US-09-825-517A-82
9	81	80.2	16	11	US-09-825-517A-147
10	80	79.2	16	11	US-09-825-517A-68
11	79	78.2	16	11	US-09-825-517A-60
12	79	78.2	16	11	US-09-825-517A-67
13	79	78.2	16	11	US-09-825-517A-76
14	79	78.2	16	11	US-09-825-517A-80
15	79	78.2	16	11	US-09-825-517A-114

16	79	78.2	16	11	US-09-825-517A-146	Sequence 146, App
17	78	77.2	16	11	US-09-825-517A-59	Sequence 59, App
18	78	77.2	16	11	US-09-825-517A-91	Sequence 91, App
19	77	76.2	16	11	US-09-825-517A-49	Sequence 49, App
20	77	76.2	16	11	US-09-825-517A-101	Sequence 101, App
21	77	76.2	16	11	US-09-825-517A-139	Sequence 139, App
22	77	76.2	16	11	US-09-825-517A-151	Sequence 151, App
23	76	75.2	16	11	US-09-825-517A-54	Sequence 54, App
24	76	75.2	16	11	US-09-825-517A-116	Sequence 116, App
25	76	75.2	16	11	US-09-825-517A-125	Sequence 125, App
26	76	75.2	16	11	US-09-825-517A-137	Sequence 137, App
27	76	75.2	16	11	US-09-825-517A-142	Sequence 142, App
28	76	75.2	16	11	US-09-825-517A-143	Sequence 143, App
29	75	74.3	16	11	US-09-825-517A-88	Sequence 88, App
30	75	74.3	16	11	US-09-825-517A-107	Sequence 107, App
31	75	74.3	16	11	US-09-825-517A-112	Sequence 112, App
32	75	74.3	16	11	US-09-825-517A-118	Sequence 118, App
33	75	74.3	16	11	US-09-825-517A-141	Sequence 141, App
34	75	74.3	16	11	US-09-825-517A-144	Sequence 144, App
35	75	74.3	16	11	US-09-825-517A-148	Sequence 148, App
36	74	73.3	16	11	US-09-825-517A-122	Sequence 122, App
37	74	73.3	16	11	US-09-825-517A-140	Sequence 140, App
38	74	73.3	16	11	US-09-825-517A-65	Sequence 65, App
39	74	73.3	16	11	US-09-825-517A-109	Sequence 109, App
40	74	73.3	16	11	US-09-825-517A-126	Sequence 126, App
41	74	73.3	16	11	US-09-825-517A-141	Sequence 141, App
42	73	72.3	16	11	US-09-825-517A-175	Sequence 175, App
43	73	72.3	16	11	US-09-825-517A-130	Sequence 130, App
44	73	72.3	16	11	US-09-825-517A-133	Sequence 133, App
45	72	71.3	16	11	US-09-825-517A-86	Sequence 86, App

ALIGNMENTS

RESULT 1
US-09-825-517A-113
; Sequence 113, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421, 1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 113
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-113

Query Match 100.0%; Score 101; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.5e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWCEYKSKQSCNPL 16
Db 1 DWCEYKSKQSCNPL 16

RESULT 2
US-09-825-517A-95
; Sequence 95, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95

Query Match          90.1%; Score 91; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.1e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 DWVCEYVKSQMSCNPL 16
        |||||:|:|:|:|
        |||||:|:|:|:|
Db      1 DWVCEYAKNQWNCNPL 16

RESULT 3
US-09-825-517A-149
; Sequence 149, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-149

Query Match          83.2%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.2e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEYVKSQMSCNPL 16
        |||||:|:|:|:|
        |||||:|:|:|:|
Db      1 DWVCEIIVNQWICNPL 16

RESULT 4
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match          82.2%; Score 83; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEYVKSQMSCNPL 16
        |||||:|:|:|:|
        |||||:|:|:|:|
Db      1 DWVCEFMKQWFCNPL 16

RESULT 5
US-09-825-517A-117
; Sequence 117, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 117
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-117

Query Match          82.2%; Score 83; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 DWVCEYVKSQMSCNPL 16
        |||||:|:|:|:|
        |||||:|:~|:|
Db      1 DWVCEWKGKQWTCNPL 16

RESULT 6
US-09-825-517A-93
; Sequence 93, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladhner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93
; LENGTH: 16
; TYPE: PRT
```


ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-93

Query Match

Best Local Similarity 81.2%; Score 82; DB 11; Length 16;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEYVKSQWSCNPL 16
Db 1 DWCEYIKQWVCNPL 16

RESULT 7

US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105

Query Match

Best Local Similarity 81.2%; Score 82; DB 11; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEYVKSQWSCNPL 16
Db 1 DWCEYFKSQWVCNVL 16

RESULT 8

US-09-825-517A-82
; Sequence 82, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-82

Query Match 80.2%; Score 81; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.9e-05;

Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEYVKSQWSCNPL 16
Db 1 DWCEYFKQWVCNVL 16

RESULT 9

US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match

Best Local Similarity 80.2%; Score 81; DB 11; Length 16;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEYVKSQWSCNPL 16
Db 1 DWCEYFKSQWVCNVL 16

RESULT 10

US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match 79.2%; Score 80; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 8.2e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEYVKSQWSCNPL 16
Db 1 DWCEYFKQWVCNVL 16

```
RESULT 11
US-09-825-517A-60
; Sequence 60, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-60

Query Match      78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00011;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWCEYVKSQWSCNPL 16
DB      1 DWCEYVKSQWSCNPL 16

RESULT 12
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

Query Match      78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00011;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWCEYVKSQWSCNPL 16
DB      1 DWCEYVKSQWSCNPL 16

RESULT 13
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
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; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match      78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00011;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWCEYVKSQWSCNPL 16
DB      1 DWCEYVKSQWSCNPL 16

RESULT 14
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 0.00011;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWCEYVKSQWSCNPL 16
DB      1 DWCEYVKSQWSCNPL 16

RESULT 15
US-09-825-517A-114
; Sequence 114, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 114
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-114

Query Match 78.2%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00011;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 1 DWCEYVKSQWSCNPL 16
|||:|||||
Db 1 DWCEFSKVMYCNPL 16

Search completed: September 8, 2004, 14:25:05
Job time : 44.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:10 ; Search time 44.3 Seconds

(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-109

Perfect score: 105

Sequence: 1 DWCEYFKNQWPCDTL 16

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US09C_NEW_PUB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/1/pubpaa/US10C_NEW_PUB.pep:*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	105	100.0	16	11	US-09-825-517A-109
2	95	90.5	16	11	US-09-825-517A-59
3	92	87.6	16	11	US-09-825-517A-83
4	88	83.8	16	11	US-09-825-517A-77
5	88	83.8	16	11	US-09-825-517A-139
6	87	82.9	16	11	US-09-825-517A-52
7	87	82.9	16	11	US-09-825-517A-81
8	85	81.0	16	11	US-09-825-517A-42
9	85	81.0	16	11	US-09-825-517A-75
10	85	81.0	16	11	US-09-825-517A-129
11	85	81.0	16	11	US-09-825-517A-131
12	85	81.0	16	11	US-09-825-517A-150
13	84	80.0	16	11	US-09-825-517A-38
14	84	80.0	16	11	US-09-825-517A-47
15	84	80.0	16	11	US-09-825-517A-66

15	84	80.0	16	11	US-09-825-517A-86	Sequence 86, App1
17	84	80.0	16	11	US-09-825-517A-124	Sequence 124, App
18	84	80.0	16	11	US-09-825-517A-136	Sequence 136, App
19	83	79.0	16	11	US-09-825-517A-39	Sequence 39, App1
20	83	79.0	16	11	US-09-825-517A-53	Sequence 53, App1
21	83	79.0	16	11	US-09-825-517A-58	Sequence 58, App1
22	83	79.0	16	11	US-09-825-517A-62	Sequence 62, App1
23	83	79.0	16	11	US-09-825-517A-73	Sequence 73, App1
24	83	79.0	16	11	US-09-825-517A-74	Sequence 74, App1
25	83	79.0	16	11	US-09-825-517A-105	Sequence 105, App
26	83	79.0	16	11	US-09-825-517A-120	Sequence 120, App
27	83	79.0	16	11	US-09-825-517A-145	Sequence 145, App
28	82	78.1	16	11	US-09-825-517A-45	Sequence 45, App1
29	82	78.1	16	11	US-09-825-517A-57	Sequence 57, App1
30	82	78.1	16	11	US-09-825-517A-69	Sequence 69, App1
31	82	78.1	16	11	US-09-825-517A-121	Sequence 121, App
32	82	78.1	16	11	US-09-825-517A-128	Sequence 128, App
33	82	78.1	16	11	US-09-825-517A-134	Sequence 134, App
34	82	78.1	16	11	US-09-825-517A-137	Sequence 137, App
35	82	78.1	16	11	US-09-825-517A-143	Sequence 143, App1
36	81	77.1	16	11	US-09-825-517A-46	Sequence 46, App1
37	81	77.1	16	11	US-09-825-517A-68	Sequence 68, App1
38	81	77.1	16	11	US-09-825-517A-127	Sequence 127, App
39	81	77.1	16	11	US-09-825-517A-130	Sequence 130, App
40	81	77.1	16	11	US-09-825-517A-150	Sequence 150, App1
41	81	77.1	16	11	US-09-825-517A-132	Sequence 132, App
42	80	76.2	16	11	US-09-825-517A-146	Sequence 146, App
43	80	76.2	16	11	US-09-825-517A-147	Sequence 147, App
44	80	76.2	16	11	US-09-825-517A-147	Sequence 147, App
45	80	76.2	16	11	US-09-825-517A-147	Sequence 147, App

ALIGNMENTS

RESULT 1
US-09-825-517A-109
; Sequence 109, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-109

Query Match 100.0%; Score 105; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEYFKNQWPCDTL 16
Db 1 DWCEYFKNQWPCDTL 16

RESULT 2
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

```

```

Query Match      90.5%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKNQWFCDTL 16
Db      1 DWVCEYFKNQWFCNVL 16

```

RESULT 3

```

US-09-825-517A-83
; Sequence 83, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-83

```

```

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.6e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKNQWFCDTL 16
Db      1 DWVCEYFKNQWFCDTL 16

```

RESULT 4

```

US-09-825-517A-77
; Sequence 77, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-77

```

```

Query Match      83.8%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.7e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKNQWFCDTL 16
Db      1 DWVCEYFKNQWFCDSL 16

```

RESULT 5

```

US-09-825-517A-139
; Sequence 139, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-139

```

```

Query Match      83.8%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.7e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKNQWFCDTL 16
Db      1 DWVCEYFKNQWLCNTL 16

```

RESULT 6

```

US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52
```

```
Query Match
Best Local Similarity 82.9%; Score 87; DB 11; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 1 DWVCEYFKNQWFCDTL 16
    ||||| ||||| |||||
Db 1 DWVCNLFKNQWFCDTL 16
```

RESULT 7
US-09-825-517A-81

```
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81
```

```
Query Match
Best Local Similarity 82.9%; Score 87; DB 11; Length 16;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 1 DWVCEYFKNQWFCDTL 16
    ||||| ||||| |||||
Db 1 DWVCNLFKNQWFCDTL 16
```

RESULT 8
US-09-825-517A-42

```
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42
```

```
Query Match
Best Local Similarity 81.0%; Score 85; DB 11; Length 16;
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 1 DWVCEYFKNQWFCDTL 16
    ||||| ||||| |||||
Db 1 DWVCNLFKNQWFCDTL 16
```

RESULT 9
US-09-825-517A-75

```
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75
```

```
Query Match
Best Local Similarity 81.0%; Score 85; DB 11; Length 16;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 DWVCEYFKNQWFCDTL 16
    ||||| ||||| |||||
Db 1 DWVCEYFKNQWFCDTL 16
```

RESULT 10
US-09-825-517A-129

```
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129
```

```
Query Match
Best Local Similarity 81.0%; Score 85; DB 11; Length 16;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 1 DWVCEYFKNQWFCDTL 16
    ||||| ||||| |||||
Db 1 DWVCNLFKNQWFCDTL 16
```

```

RESULT 11
US-09-825-517A-131
; Sequence 131, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-131

Query Match      81.0%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.6e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY      1 DWVCEYFNQWFCDTL 16
DB      1 DWICNLFRNQWFCQDL 16

RESULT 12
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

Query Match      81.0%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.6e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY      1 DWVCEYFNQWFCDTL 16
DB      1 DWVCEFFKQWFCNII 16

RESULT 13
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match      80.0%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.5e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY      1 DWVCEYFNQWFCDTL 16
DB      1 DWVCNLFRNQWFCDLN 16

RESULT 14
US-09-825-517A-47
; Sequence 47, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-47

Query Match      80.0%; Score 84; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 3.5e-05;
Matches 11; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

OY      1 DWVCEYFNQWFCDTL 16
DB      1 DWICNLFRNQWFCDAI 16

RESULT 15
US-09-825-517A-66
; Sequence 66, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```


NUMBER OF SEQ ID NOS: 151
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 66
LENGTH: 16
TYPE: PRP
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-66

Query Match 80.0%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.5e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1 DWVCEYFKQWPCDTL 16
:|||||:
Db 1 NWVCNLFKQWPCDTV 16

Search completed: September 8, 2004, 14:25:05
Job time : 44.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54; Search time 12.2 Seconds

(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-113

Sequence: 1 DWCEYKSCWNCNPL 16

Scoring table:

BIOSUM62

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

1: Issued Patents AA.*
2: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/6C COMB.pep.*
7: /cgn2_6/ptodata/2/iaa/6D COMB.pep.*
8: /cgn2_6/ptodata/2/iaa/6E COMB.pep.*
9: /cgn2_6/ptodata/2/iaa/6F COMB.pep.*
10: /cgn2_6/ptodata/2/iaa/6G COMB.pep.*
11: /cgn2_6/ptodata/2/iaa/6H COMB.pep.*
12: /cgn2_6/ptodata/2/iaa/6I COMB.pep.*
13: /cgn2_6/ptodata/2/iaa/6J COMB.pep.*
14: /cgn2_6/ptodata/2/iaa/6K COMB.pep.*
15: /cgn2_6/ptodata/2/iaa/6L COMB.pep.*
16: /cgn2_6/ptodata/2/iaa/6M COMB.pep.*
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18: /cgn2_6/ptodata/2/iaa/6O COMB.pep.*
19: /cgn2_6/ptodata/2/iaa/6P COMB.pep.*
20: /cgn2_6/ptodata/2/iaa/6Q COMB.pep.*
21: /cgn2_6/ptodata/2/iaa/6R COMB.pep.*
22: /cgn2_6/ptodata/2/iaa/6S COMB.pep.*
23: /cgn2_6/ptodata/2/iaa/6T COMB.pep.*
24: /cgn2_6/ptodata/2/iaa/6U COMB.pep.*
25: /cgn2_6/ptodata/2/iaa/6V COMB.pep.*
26: /cgn2_6/ptodata/2/iaa/6W COMB.pep.*
27: /cgn2_6/ptodata/2/iaa/6X COMB.pep.*
28: /cgn2_6/ptodata/2/iaa/6Y COMB.pep.*
29: /cgn2_6/ptodata/2/iaa/6Z COMB.pep.*
30: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
31: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
32: /cgn2_6/ptodata/2/iaa/6C COMB.pep.*
33: /cgn2_6/ptodata/2/iaa/6D COMB.pep.*
34: /cgn2_6/ptodata/2/iaa/6E COMB.pep.*
35: /cgn2_6/ptodata/2/iaa/6F COMB.pep.*
36: /cgn2_6/ptodata/2/iaa/6G COMB.pep.*
37: /cgn2_6/ptodata/2/iaa/6H COMB.pep.*
38: /cgn2_6/ptodata/2/iaa/6I COMB.pep.*
39: /cgn2_6/ptodata/2/iaa/6J COMB.pep.*
40: /cgn2_6/ptodata/2/iaa/6K COMB.pep.*
41: /cgn2_6/ptodata/2/iaa/6L COMB.pep.*
42: /cgn2_6/ptodata/2/iaa/6M COMB.pep.*
43: /cgn2_6/ptodata/2/iaa/6N COMB.pep.*
44: /cgn2_6/ptodata/2/iaa/6O COMB.pep.*
45: /cgn2_6/ptodata/2/iaa/6P COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	45.5	45.0	714	4	US-09-328-352-5347
2	44	43.6	26	1	US-08-484-635-90
3	44	43.6	26	2	US-08-484-631-90
4	44	43.6	26	2	US-08-827-570-90
5	44	43.6	604	3	US-09-586-935-3
6	44	43.6	604	4	US-09-872-861-4
7	43	42.6	361	4	US-09-252-991A-24065
8	42	41.6	51	6	5177197-50
9	42	41.6	399	1	US-08-414-926A-5
10	42	41.6	399	2	US-08-926-922-5
11	42	41.6	399	3	US-09-253-682-5
12	42	41.6	399	3	US-09-527-657-5
13	42	41.6	399	4	US-09-892-100-5
14	41.5	41.1	293	4	US-09-252-991A-26267
15	41	40.6	107	1	US-08-459-310-14
16	41	40.6	107	1	US-08-459-310-17
17	41	40.6	593	1	US-07-668-648-4
18	41	40.6	593	2	US-08-429-938-4
19	41	40.6	593	2	US-08-431-333-4
20	41	40.6	593	4	US-08-991-862-17
21	41	40.6	593	4	US-09-813-156-17
22	41	40.6	593	5	PCT-US91-02321-4
23	41	40.6	1520	4	US-09-252-991A-21336
24	40	39.6	109	4	US-09-087-031E-19
25	40	39.6	195	4	US-09-546-043-5
26	40	39.6	220	3	US-08-924-747-26
27	40	39.6	220	3	US-09-247-373B-26

28	40	39.6	220	3	US-09-296-715-26	Sequence 26, Appl
29	40	39.6	225	3	US-09-247-373B-36	Sequence 36, Appl
30	40	39.6	246	4	US-09-546-043-6	Sequence 6, Appl
31	40	39.6	267	4	US-09-546-043-7	Sequence 7, Appl
32	40	39.6	313	4	US-09-087-031E-4	Sequence 4, Appl
33	40	39.6	313	4	US-09-514-885-1	Sequence 3, Appl
34	40	39.6	313	4	US-09-514-885-1	Sequence 1, Appl
35	40	39.6	314	4	US-09-087-031E-3	Sequence 3, Appl
36	40	39.6	314	4	US-09-087-031E-3	Sequence 1, Appl
37	40	39.6	338	4	US-09-546-043-4	Sequence 4, Appl
38	40	39.6	415	3	US-09-100-193-2	Sequence 2, Appl
39	40	39.6	513	3	US-09-100-193-3	Sequence 3, Appl
40	40	39.6	521	4	US-09-086-663A-79	Sequence 79, Appl
41	40	39.6	521	4	US-09-086-663A-81	Sequence 81, Appl
42	40	39.6	528	4	US-09-086-663A-82	Sequence 82, Appl
43	40	39.6	528	4	US-09-086-663A-71	Sequence 71, Appl
44	40	39.6	596	4	US-09-086-663A-2	Sequence 2, Appl
45	40	39.6	596	4	US-09-086-663A-80	Sequence 80, Appl

ALIGNMENTS

RESULT 1
US-09-328-352-5347
Sequence 5347, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: BAUWANNI FOR DIAGNOSTICS AND THERAPEUTICS
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 5347
LENGTH: 714
TYPE: PRT
ORGANISM: Acinetobacter baumannii
US-09-328-352-5347

Query Match 45.0%; Score 45.5; DB 4; Length 714;
Best Local Similarity 34.6%; Pred. No. 47;
Matches 9; Conservative 2; Mismatches 4; Indels 11; Gaps 1;

QY 1 DWCEYKSCWNCNPL 15
Db 248 MWVTNYKIHADDPQGLTHDQWNP 273

US-08-484-635-90
Sequence 90, Application US/08484635
Patent No. 5773569
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,635
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-5043
TELEFAX: (415) 543-9600
INFORMATION FOR SEQ ID NO: 90:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-635-90

Query Match 43.6%; Score 44; DB 1; Length 26;
Best Local Similarity 35.7%; Pred. No. 2.5;
Matches 5; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 WCEYVKSQWSCP 15
Db 3 YICDYGLTWACKP 16

RESULT 3
US-08-484-631-90
Sequence 90, Application US/08484631
Patent No. 5830851
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,631
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330

REFERENCE/DOCKET NUMBER: 16528A-43-1-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 90:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-631-90

Query Match 43.6%; Score 44; DB 2; Length 26;
Best Local Similarity 35.7%; Pred. No. 2.5;
Matches 5; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 WCEYVKSQWSCP 15
Db 3 YICDYGLTWACKP 16

RESULT 4
US-08-827-570-90
Sequence 90, Application US/08827570
Patent No. 5986047
GENERAL INFORMATION:
APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda
TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor
NUMBER OF SEQUENCES: 259
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Stewart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/827,570
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,635
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/155,940
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Mackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 16528A-43-1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-5043
TELEFAX: (415) 543-9600
INFORMATION FOR SEQ ID NO: 90:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-827-570-90

Query Match 43.6%; Score 44; DB 2; Length 26;
Best Local Similarity 35.7%; Pred. No. 2.5;
Matches 5; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 WCEYVKSQWSCNP 15
Db 3 YICDYGPLTWACKP 16

RESULT 5
US-09-586-935-3

; Sequence 3, Application US/09586935
; Patent No. 6191267
; GENERAL INFORMATION:
; APPLICANT: KONG, HUIMIN
; APPLICANT: HIGGINS, LAUREN S.
; APPLICANT: DALTON, MICHAEL
; APPLICANT: KUCERA, REBECCA B.
; APPLICANT: SCHILDKRAUT, IRA
; TITLE OF INVENTION: Cloning And Producing The N.BstNBI Nicking Endonuclease
; FILE REFERENCE: NEB-178
; CURRENT APPLICATION NUMBER: US/09/586,935
; CURRENT FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 604
; TYPE: PR1
; ORGANISM: Bacillus stearothermophilus
US-09-586-935-3

Query Match 43.6%; Score 44; DB 3; Length 604;
Best Local Similarity 58.3%; Pred. No. 67;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 EYVKSQWSCNP 16
Db 127 EYEEWMSINPL 138

RESULT 6

US-09-872-861-4
; Sequence 4, Application US/09872861
; Patent No. 6395523
; GENERAL INFORMATION:
; APPLICANT: KONG, HUIMIN
; APPLICANT: XU, YAN
; APPLICANT: BRESNIER, CAROLINE
; TITLE OF INVENTION: Engineering Nicking Endonucleases From Type IIS
; FILE REFERENCE: NEB-188
; CURRENT APPLICATION NUMBER: US/09/872,861
; CURRENT FILING DATE: 2001-06-01
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 604
; TYPE: PR1
; ORGANISM: Bacillus stearothermophilus
US-09-872-861-4

Query Match 43.6%; Score 44; DB 4; Length 604;
Best Local Similarity 58.3%; Pred. No. 67;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 EYVKSQWSCNP 16
Db 127 EYEEWMSINPL 138

RESULT 7
US-09-252-991A-24065

; Sequence 24065, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24065
; LENGTH: 361
; TYPE: PR1
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24065

Query Match 42.6%; Score 43; DB 4; Length 361;
Best Local Similarity 42.9%; Pred. No. 56;
Matches 6; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 2 WCEYVKSQWSCNP 15
Db 263 WTSITVSSWSCSP 276

RESULT 8

517197-50
; Patent No. 5177197
; APPLICANT: KANZAKI, TETSUO; OLOFSSON, ANDERS; MOREN, ANITA;
; WERNSTEDT, CHRISTER; HELLMAN, ULF; MIYAZONO, KOHEI; CLARSSON-WELSH,
; LENA; HELDIN, CARL-HENRIK
; TITLE OF INVENTION: ISOLATED NUCLEOTIDE SEQUENCE EXPRESSING
; HUMAN TRANSFORMING GROWTH FACTOR-BETA1-BINDING PROTEIN
; NUMBER OF SEQUENCES: 53
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/487,343
; FILING DATE: 27-FEB-1990
; SEQ ID NO:50
; LENGTH: 51
517197-50

Query Match 41.6%; Score 42; DB 6; Length 51;
Best Local Similarity 42.9%; Pred. No. 10;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWCEYVKSQWSCN 14
Db 17 DGVCWYIDKXACN 30

RESULT 9

US-08-414-926A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,926A
FILING DATE: March 31, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Cseerr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-011/COUS
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-494-7622
TELEFAX: 415-857-0663
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-414-926A-5

Query Match 41.6%; Score 42; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 88;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEYKXQW 11
Db 307 WVCEPKHEW 316

RESULT 10
US-08-926-922-5
Sequence 5, Application US/08926922
Patent No. 5925751
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cseerr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Cseerr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-926-922-5

Query Match 41.6%; Score 42; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 88;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEYKXQW 11
Db 307 WVCEPKHEW 316

RESULT 11
US-09-253-682-5
Sequence 5, Application US/09253682
Patent No. 6040170
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cseerr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/253,682
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cseerr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-253-682-5

Query Match 41.6%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 88;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEYKXQW 11
Db 307 WVCEPKHEW 316

RESULT 12
US-09-527-657-5
Sequence 5, Application US/09527657
Patent No. 6291236
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cseerr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA

ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/527,657
FILING DATE: 17-Mar-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cseerr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-527-657-5

Query Match 41.6%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 88;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEYVSQW 11
DB 307 WVCEPKHEW 316

RESULT 13
US-09-892-100-5
Sequence 5, Application US/09892100
Patent No. 6635477
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
Chai, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cseerr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/892,100
FILING DATE: 26-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/527,657
FILING DATE: 17-Mar-2000
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cseerr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:

TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5

Query Match 41.6%; Score 42; DB 4; Length 399;
Best Local Similarity 60.0%; Pred. No. 88;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEYVSQW 11
DB 307 WVCEPKHEW 316

RESULT 14
US-09-252-991A-26267
Sequence 26267, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILIPINENSIS
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 26267
LENGTH: 293
TYPE: PRN
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26267

Query Match 41.1%; Score 41.5; DB 4; Length 293;
Best Local Similarity 29.2%; Pred. No. 76;
Matches 7; Conservative 5; Mismatches 3; Indels 9; Gaps 1;

QY 2 WVCE-----YKQSQMNCNPL 16
DB 179 WCCDLNAVVGEDSFVFAQWAGRPL 202

RESULT 15
US-08-459-310-14
Sequence 14, Application US/08459310
Patent No. 5645817
GENERAL INFORMATION:
APPLICANT: Seemann, Gerhard
Bosslet, Klaus
TITLE OF INVENTION: Granulocyte-Binding Antibody Constructs,
TITLE OF INVENTION: Their Preparation and Use
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
Dunne
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,310
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/100,963
FILING DATE: 03-AUG-1993
APPLICATION NUMBER: DE P 422 58 53.7
FILING DATE: 05-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Wadler, Linda A.
REGISTRATION NUMBER: 33,218
REFERENCE/DOCKET NUMBER: 02481.1317-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-459-310-14

Query Match 40.6%; Score 41; DB 1; Length 107;
Best Local Similarity 50.0%; Pred. No. 32;
Matches 7; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 3 VCEYVKQWSCNPL 16
: |||||
Db 82 IATYYCQWSSNPL 95

Search completed: September 8, 2004, 12:58:30
Job time : 13.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54; Search time 12.2 Seconds

(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-109

Perfect score: 105

Sequence: 1 DWCEYFKNQWFCDTL 16

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 389414 segs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	42.9	480	2	US-08-828-488-8
2	45	42.9	480	4	US-09-299-689A-8
3	45	42.9	480	4	US-09-702-705-336
4	45	42.9	480	4	US-09-736-457-336
5	45	42.9	480	4	US-09-614-124B-336
6	45	42.9	480	4	US-09-671-325-336
7	45	42.9	480	4	US-09-589-184-336
8	45	42.9	480	4	US-09-337-227C-27
9	42	40.0	21	4	US-09-723-251A-27
10	42	40.0	399	1	US-08-414-926A-5
11	42	40.0	399	2	US-08-926-922-5
12	42	40.0	399	3	US-09-253-682-5
13	42	40.0	399	3	US-09-527-657-5
14	42	40.0	399	4	US-09-892-100-5
15	42	40.0	478	4	US-09-137-223A-2
16	42	40.0	272	4	US-09-328-352-6959
17	41	39.0	510	1	US-08-255-670A-2
18	41	39.0	71	4	US-09-621-976-5666
19	40	38.1	97	4	US-09-621-976-5666
20	40	38.1	222	4	US-09-328-352-6740
21	40	38.1	250	4	US-09-134-000C-5297
22	40	38.1	253	4	US-09-180-109A-35
23	40	38.1	254	4	US-09-180-109A-31
24	40	38.1	1422	4	US-08-469-260A-82
25	40	38.1	1422	4	US-08-488-446-82
26	40	38.1	1422	4	US-08-467-344A-82
27	39.5	37.6	190	1	US-08-816-241-1

28	39.5	37.6	190	3	US-09-128-395-1
29	39.5	37.6	286	4	US-09-328-352-5022
30	39	37.1	56	1	US-08-328-256-9
31	39	37.1	423	4	US-09-489-039A-7898
32	39	37.1	496	1	US-08-328-256-12
33	39	37.1	582	3	US-08-194-560-2
34	39	37.1	3898	2	US-08-876-991-2
35	39	37.1	3898	2	US-09-059-853-2
36	39	37.1	3898	3	US-08-750-717-2
37	38.5	36.7	223	4	US-09-134-000C-6010
38	38.5	36.7	236	4	US-09-598-401C-72
39	38.5	36.7	245	4	US-09-325-932A-89
40	38.5	36.7	601	4	US-09-489-039A-8499
41	38	36.2	62	4	US-08-936-165A-428
42	38	36.2	131	3	US-09-067-782A-4
43	38	36.2	205	4	US-09-107-532A-5462
44	38	36.2	351	3	US-09-067-782A-2
45	38	36.2	413	4	US-09-328-352-7815

ALIGNMENTS

RESULT 1
US-08-828-488-8
Sequence 8, Application US/08828488
Patent No. 5925521
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Hawkins, Phillip R.
APPLICANT: Hillman, Jennifer L.
APPLICANT: Lal, Preeti
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN SERINE
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/828,488
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0241 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 190283
US-08-828-488-8
Query Match 42.9%; Score 45; DB 2; Length 480;

Best Local Similarity 37.5%; Pred. No. 60;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
QY 1 DWCEYFKNQMFCDTL 16
DB 400 DMACNFMGDEMFVDSL 415

RESULT 2

US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Preeti
; APPLICANT: Goli, Surya K
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billing, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
; US-09-299-689A-8

Query Match 42.9%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 60;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
QY 1 DWCEYFKNQMFCDTL 16
DB 400 DMACNFMGDEMFVDSL 415

RESULT 3

US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-702-705-336

Query Match 42.9%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 60;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEYFKNQMFCDTL 16
DB 400 DMACNFMGDEMFVDSL 415

RESULT 4

US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-736-457-336

Query Match 42.9%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 60;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
QY 1 DWCEYFKNQMFCDTL 16
DB 400 DMACNFMGDEMFVDSL 415

RESULT 5

US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

```

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336
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Query Match          42.9%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 60;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
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QY 1 DWCEYFKNQWFCDTL 16
Db 400 DMACNFMGDEWFDVDSL 415
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RESULT 6

```

US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Bang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336
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Query Match          42.9%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 60;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
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```
QY 1 DWCEYFKNQWFCDTL 16
Db 400 DMACNFMGDEWFDVDSL 415
```

RESULT 7

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US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
```

```

; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336
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Query Match          42.9%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 60;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
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QY 1 DWCEYFKNQWFCDTL 16
Db 400 DMACNFMGDEWFDVDSL 415
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RESULT 8

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US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
US-09-337-227C-27
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Query Match          40.0%; Score 42; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 6;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
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QY 2 WYCEYFKNQWFC 14
Db 3 WVCRAGPLWMLCE 15
```

RESULT 9

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US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
```

APPLICANT: Robinson, Iain C.A.F.
APPLICANT: Skelton, Nicholas J.
TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
FILE REFERENCE: P1071P2C1.2REV
CURRENT APPLICATION NUMBER: US/09/723,251A
CURRENT FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: US 09/337,227
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 08/825,852
PRIOR FILING DATE: 1997-04-04
NUMBER OF SEQ ID NOS: 51
SEQ ID NO 27
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Sequence is synthesized
Patent No. 6608028
US-09-723-251A-27

Query Match 40.0%; Score 42; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 6.8;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCYEFKNQWFC 14
Db 3 WVCAGPLQWLCE 15

RESULT 10
US-08-414-926A-5
Sequence 5, Application US/0841926A
Patent No. 5721354
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
STREET: 5 Palo Alto Square
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306-2155
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,926A
FILING DATE: March 31, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-011/COUS
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-494-7622
TELEFAX: 415-857-0663
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-414-926A-5

Query Match 40.0%; Score 42; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCYEFKNQW 11
Db 307 WVCBEPKHEW 316

RESULT 11
US-08-926-922-5
Sequence 5, Application US/08926922
Patent No. 5925751
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-926-922-5

Query Match 40.0%; Score 42; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCYEFKNQW 11
Db 307 WVCBEPKHEW 316

RESULT 12
US-09-253-682-5
Sequence 5, Application US/09253682
Patent No. 6040170
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/253,682
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-253-682-5

Query Match 40.0%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 2 WVCEYFKXQW 11
Db 307 WVCEPKHEW 316

RESULT 13
US-09-527-657-5
Sequence 5, Application US/09527657
Patent No. 6291236
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/527,657
FILING DATE: 17-Mar-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-527-657-5

Query Match 40.0%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 2 WVCEYFKXQW 11
Db 307 WVCEPKHEW 316

RESULT 14
US-09-892-100-5
Sequence 5, Application US/09892100
Patent No. 6635477
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/892,100
FILING DATE: 26-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/527,657
FILING DATE: 17-Mar-2000
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5

Query Match 40.0%; Score 42; DB 4; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEYFKXQW 11
Db 307 WVCEPKHEW 316

RESULT 15
US-09-137-223A-2
Sequence 2, Application US/09137223A
Patent No. 6420525
GENERAL INFORMATION:

APPLICANT: Yee, David P
APPLICANT: Deisher, Theresa A
TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
TITLE OF INVENTION: ZGCL-1
FILE REFERENCE: 97-18
CURRENT APPLICATION NUMBER: US/09/137,223A
CURRENT FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 06/056,130
PRIOR FILING DATE: 1997-08-19
NUMBER OF SEQ ID NOS: 16
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 478
TYPE: PRT
ORGANISM: homo sapiens
US-09-137-223A-2

Query Match 40.0%; Score 42; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 1.6e+02;
Matches 5; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEYFKNQWF 12
Db 322 EWLSVYKQWF 333

Search completed: September 8, 2004, 12:58:29
Job time : 13.2 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds

(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-108

Perfect score: 103

Sequence: 1 DWICNLFKNQWPCNEA 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB.pep:*
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11: /cgn2_6/ptodata/1/pubppaa/US09C_PUBCOMB.pep:*
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13: /cgn2_6/ptodata/1/pubppaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubppaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/1/pubppaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/1/pubppaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	103	100.0	16	11	US-09-825-517A-71
2	103	100.0	16	11	US-09-825-517A-108
3	93	90.3	16	11	US-09-825-517A-50
4	93	90.3	16	11	US-09-825-517A-61
5	93	90.3	16	11	US-09-825-517A-119
6	93	90.3	16	11	US-09-825-517A-128
7	91	88.3	16	11	US-09-825-517A-39
8	91	88.3	16	11	US-09-825-517A-48
9	91	88.3	16	11	US-09-825-517A-131
10	90	87.4	16	11	US-09-825-517A-73
11	90	87.4	16	11	US-09-825-517A-89
12	90	87.4	16	11	US-09-825-517A-116
13	89	86.4	16	11	US-09-825-517A-45
14	89	86.4	16	11	US-09-825-517A-47
15	89	86.4	16	11	US-09-825-517A-53

16	89	86.4	16	11	US-09-825-517A-57	Sequence 57, Appl
17	89	86.4	16	11	US-09-825-517A-121	Sequence 121, Appl
18	89	86.4	16	11	US-09-825-517A-134	Sequence 134, Appl
19	88	85.4	16	11	US-09-825-517A-4	Sequence 4, Appl
20	88	85.4	16	11	US-09-825-517A-38	Sequence 38, Appl
21	88	85.4	16	11	US-09-825-517A-41	Sequence 41, Appl
22	88	85.4	16	11	US-09-825-517A-42	Sequence 42, Appl
23	88	85.4	16	11	US-09-825-517A-43	Sequence 43, Appl
24	88	85.4	16	11	US-09-825-517A-52	Sequence 52, Appl
25	88	85.4	16	11	US-09-825-517A-58	Sequence 58, Appl
26	88	85.4	16	11	US-09-825-517A-62	Sequence 62, Appl
27	88	85.4	16	11	US-09-825-517A-74	Sequence 74, Appl
28	88	85.4	16	11	US-09-825-517A-77	Sequence 77, Appl
29	88	85.4	16	11	US-09-825-517A-79	Sequence 79, Appl
30	88	85.4	16	11	US-09-825-517A-81	Sequence 81, Appl
31	88	85.4	16	11	US-09-825-517A-83	Sequence 83, Appl
32	88	85.4	16	11	US-09-825-517A-84	Sequence 84, Appl
33	88	85.4	16	11	US-09-825-517A-92	Sequence 92, Appl
34	88	85.4	16	11	US-09-825-517A-99	Sequence 99, Appl
35	88	85.4	16	11	US-09-825-517A-120	Sequence 120, Appl
36	88	85.4	16	11	US-09-825-517A-124	Sequence 124, Appl
37	88	85.4	16	11	US-09-825-517A-129	Sequence 129, Appl
38	88	85.4	16	11	US-09-825-517A-145	Sequence 145, Appl
39	88	85.4	16	11	US-09-825-517A-24	Sequence 24, Appl
40	86	83.5	16	11	US-09-825-517A-37	Sequence 37, Appl
41	86	83.5	16	11	US-09-825-517A-40	Sequence 40, Appl
42	86	83.5	16	11	US-09-825-517A-46	Sequence 46, Appl
43	86	83.5	16	11	US-09-825-517A-132	Sequence 132, Appl
44	85	82.5	16	11	US-09-825-517A-85	Sequence 85, Appl
45	84	81.6	16	11	US-09-825-517A-69	Sequence 69, Appl

ALIGNMENTS

```
RESULT 1
US-09-825-517A-71
; Sequence 71, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-71

Query Match      100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 8.6e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 DWICNLFKNQWPCNEA 16
Db      1 DWICNLFKNQWPCNEA 16

RESULT 2
US-09-825-517A-108
; Sequence 108, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421,1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 108
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-108

Query Match          100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 8,6e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWICNLFKNQWFCNEA 16
Db      1 DWICNLFKNQWFCNEA 16

RESULT 3
US-09-825-517A-50
; Sequence 50, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421,1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 92.9%; Pred. No. 2,2e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWICNLFKNQWFCN 14
Db      1 DWICNLFKNQWFCN 14

RESULT 4
US-09-825-517A-61
; Sequence 61, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421,1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-61

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 92.9%; Pred. No. 2,2e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWICNLFKNQWFCN 14
Db      1 DWICNLFKNQWFCN 14

RESULT 5
US-09-825-517A-119
; Sequence 119, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421,1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 119
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-119

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 92.9%; Pred. No. 2,2e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWICNLFKNQWFCN 14
Db      1 DWICNLFKNQWFCN 14

RESULT 6
US-09-825-517A-128
; Sequence 128, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421,1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 16
; TYPE: PRT
```


ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match

Best Local Similarity 90.3%; Score 93; DB 11; Length 16;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFRKNQWFCN 14
DB 1 DWICNLFRKNQWFCN 14

RESULT 7

US-09-825-517A-39
; Sequence 39, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

Query Match

Best Local Similarity 88.3%; Score 91; DB 11; Length 16;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFRKNQWFCNE 15
DB 1 DWICNLFRKNQWFCDD 15

RESULT 8

US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match 88.3%; Score 91; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 4.1e-06;

Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWICNLFRKNQWFCNEA 16
DB 1 DWICNLFRKNQWFCDDMA 16

RESULT 9

US-09-825-517A-131
; Sequence 131, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-131

Query Match

Best Local Similarity 88.3%; Score 91; DB 11; Length 16;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFRKNQWFCNE 15
DB 1 DWICNLFRKNQWFCDD 15

RESULT 10

US-09-825-517A-73
; Sequence 73, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-73

Query Match

Best Local Similarity 87.4%; Score 90; DB 11; Length 16;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFRKNQWFCNE 15
DB 1 DWICNLFRKNQWFCDD 15

RESULT 11
US-09-825-517A-89
; Sequence 89, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 89
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-89

Query Match 87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 5.7e-06;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCNE 15
1 DWICNLFKNQWFCQ 15

RESULT 12
US-09-825-517A-136
; Sequence 136, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 136
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-136

Query Match 87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 80.0%; Pred. No. 5.7e-06;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCNE 15
1 DWICNLFKNQWFCQ 15

RESULT 13
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match 86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 92.9%; Pred. No. 7.9e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCN 14
1 DWICNLFKNQWFCQ 14

RESULT 14
US-09-825-517A-47
; Sequence 47, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 47
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-47

Query Match 86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 92.9%; Pred. No. 7.9e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCN 14
1 DWICNLFKNQWFCQ 14

RESULT 15
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53
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Query Match      86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 80.0%; Pred. No. 7.9e-06;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWICNLFKNQWFCNE 15
        ||:|||||:|||||:
Db       1 DWVCNLFKNQWFCDK 15
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Search completed: September 8, 2004, 14:25:05
Job time : 54.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-108

Perfect score: 103

Sequence: 1 DWICNLFKNQWFCEA 16

Scoring table:

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA.*
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6: /cgn2_6/ptodata/2/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	44.7	478	4	US-09-137-223A-2
2	45	43.7	612	4	US-09-252-991A-17516
3	44	42.7	326	2	US-08-671-978A-7
4	44	42.7	2474	4	US-08-265-967C-3
5	44	42.7	2474	4	US-08-305-790B-4
6	43	41.7	215	3	US-09-131-028A-3
7	43	41.7	215	3	US-09-131-028A-13
8	42	40.8	582	3	US-08-194-560-2
9	41	39.8	21	4	US-09-337-227C-27
10	41	39.8	21	4	US-09-723-251A-27
11	41	39.8	1049	4	US-09-107-532A-5966
12	40.5	39.3	113	4	US-09-530-903C-4
13	40	38.8	70	4	US-09-328-352-7525
14	40	38.8	133	4	US-09-443-184-56
15	40	38.8	251	4	US-09-134-000C-4566
16	40	38.8	352	4	US-09-443-184-56
17	39.5	38.3	1043	2	US-08-724-354D-4
18	39.5	38.3	1043	2	US-09-270-984A-2
19	39.5	38.3	1118	2	US-08-724-354D-2
20	39.5	38.3	1118	2	US-09-270-984A-2
21	39	37.9	289	3	US-08-942-012B-4
22	39	37.9	289	3	US-07-593-657-7
23	39	37.9	326	1	US-07-603-133B-22
24	39	37.9	326	1	US-07-603-133B-23
25	39	37.9	326	1	US-07-603-133B-24
26	39	37.9	326	1	US-07-603-133B-25
27	39	37.9	326	1	US-07-603-133B-27

28	39	37.9	326	1	US-07-603-133B-28	Sequence 28, Appl
29	39	37.9	326	1	US-08-802-141-2	Sequence 2, Appl
30	39	37.9	326	2	US-08-671-978A-6	Sequence 6, Appl
31	39	37.9	326	3	US-08-089-397A-11	Sequence 11, Appl
32	39	37.9	326	3	US-08-089-397A-12	Sequence 12, Appl
33	39	37.9	326	3	US-08-089-397A-13	Sequence 13, Appl
34	39	37.9	326	3	US-08-089-397A-14	Sequence 14, Appl
35	39	37.9	326	6	5223424-2	Patent No. 5223424
36	39	37.9	326	6	5395759-2	Patent No. 5395759
37	39	37.9	415	3	US-09-100-193-2	Sequence 2, Appl
38	39	37.9	423	3	US-08-943-714-9	Sequence 9, Appl
39	39	37.9	513	3	US-09-100-193-3	Sequence 3, Appl
40	39	37.9	521	4	US-09-086-663A-79	Sequence 79, Appl
41	39	37.9	521	4	US-09-086-663A-81	Sequence 81, Appl
42	39	37.9	528	4	US-09-086-663A-82	Sequence 82, Appl
43	39	37.9	548	4	US-09-086-663A-71	Sequence 71, Appl
44	39	37.9	596	4	US-09-086-663A-2	Sequence 2, Appl
45	39	37.9	596	4	US-09-086-663A-80	Sequence 80, Appl

ALIGNMENTS

RESULT 1
US-09-137-223A-2

Sequence 2, Application US/09137223A

Patent No. 6420525

GENERAL INFORMATION:

APPLICANT: Deisher, Theresa A

TITLE OF INVENTION: TESTS-SPECIFIC TRANSCRIPTION FACTOR

ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match 43.7%; Score 45; DB 4; Length 612;
Best Local Similarity 87.5%; Pred. No. 95;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 WICNLFKN 9
Db 54 WICNLFKN 61

RESULT 3

US-08-671-978A-7
Sequence 7, Application US/08671978A
Patent No. 5959093
GENERAL INFORMATION:
APPLICANT: Salf, Linda J.
APPLICANT: Parwani, Anil
APPLICANT: Kim, Wonyong
APPLICANT: Chang, Keong-OK
TITLE OF INVENTION: ROTAVIRUS GENES
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CALFEE, HALTER & GRISWOLD
STREET: 800 SUPERIOR AVENUE, SUITE 1400
CITY: CLEVELAND
STATE: OHIO
COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/671,978A
FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: GOLTRICK, MARY E
REGISTRATION NUMBER: 34,829
REFERENCE/DOCKET NUMBER: 22727/00133
TELECOMMUNICATION INFORMATION:
TELEPHONE: (216) 622-8200
TELEFAX: (216) 241-0816
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 326 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-671-978A-7

Query Match 42.7%; Score 44; DB 2; Length 326;
Best Local Similarity 50.0%; Pred. No. 69;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 3 ICNLFKNQFCN 14
Db 155 LANLIMFWLCN 166

RESULT 4
US-08-265-967C-3
Sequence 3, Application US/08265967C
Patent No. 6476200
GENERAL INFORMATION:
APPLICANT: SABATINI, DAVID M.
APPLICANT: ERDJUMENT-BROMAGE, HEDIYE
APPLICANT: LUI, MARY
APPLICANT: TEMPEST, PAUL

APPLICANT: SNYDER, SOLOMON H.
TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER & ALLEGRETTI, LTD
STREET: 1001 G STREET, N.W., 11TH FLOOR
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/265,967C
FILING DATE: 27-JUN-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.46363
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2474 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Saccharomyces cerevisiae
US-08-265-967C-3

Query Match 42.7%; Score 44; DB 4; Length 2474;
Best Local Similarity 45.5%; Pred. No. 5,4e+02;
Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 5 NLKFNQWFCNE 15
Db 1223 NLKFNQWFCNE 1233

RESULT 5
US-08-305-790B-4
Sequence 4, Application US/08305790B
Patent No. 6492106
GENERAL INFORMATION:
APPLICANT: SABATINI, DAVID M.
APPLICANT: ERDJUMENT-BROMAGE, HEDIYE
APPLICANT: LUI, MARY
APPLICANT: TEMPEST, PAUL
APPLICANT: SNYDER, SOLOMON H.
TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER & ALLEGRETTI, LTD
STREET: 1001 G STREET, N.W., 11TH FLOOR
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/305,790B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/265,967
FILING DATE: 27-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.47225
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2474 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Saccharomyces cerevisiae

Query Match 42.7%; Score 44; DB 4; Length 2474;
Best Local Similarity 45.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 5 NLKFNQWFC 15
DB 1223 NIKRWYCSQ 1233

RESULT 6
US-09-131-028A-3
Sequence 3, Application US/09131028A
Patent No. 6287866
GENERAL INFORMATION:
APPLICANT: Abbott Laboratories
APPLICANT: Mukerji, Pradip
APPLICANT: Lemmel, Steven A.
APPLICANT: Leonard, Amanda Eun-Yeong
TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
FILE REFERENCE: 6004 US. P1
CURRENT APPLICATION NUMBER: US/09/131,028A
PRIORITY FILING DATE: 1998-08-07
PRIOR APPLICATION NUMBER: US 08/064,440
PRIOR FILING DATE: 1993-05-21
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 215
TYPE: PRT
ORGANISM: Homo sapiens

Query Match 41.7%; Score 43; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 63;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFC 13
DB 12 WFCGLRGNEFFC 23

RESULT 7
US-09-131-028A-13
Sequence 13, Application US/09131028A
Patent No. 6287866
GENERAL INFORMATION:
APPLICANT: Abbott Laboratories
APPLICANT: Mukerji, Pradip

APPLICANT: Lemmel, Steven A.
APPLICANT: Leonard, Amanda Eun-Yeong
APPLICANT: Chaudhary, Sunita
TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
FILE REFERENCE: 6004 US. P1
CURRENT APPLICATION NUMBER: US/09/131,028A
PRIORITY FILING DATE: 1998-08-07
PRIOR APPLICATION NUMBER: US 08/064,440
PRIOR FILING DATE: 1993-05-21
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 215
TYPE: PRT
ORGANISM: Homo sapiens

Query Match 41.7%; Score 43; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 63;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFC 13
DB 12 WFCGLRGNEFFC 23

RESULT 8
US-08-194-560-2
Sequence 2, Application US/08194560
Patent No. 6255062
GENERAL INFORMATION:
APPLICANT: Campbell, Judith L.
APPLICANT: Budd, Martin E.
TITLE OF INVENTION: B-Type DNA Polymerases
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hohbach, Teet, Albritton & Herbert
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/194,560
FILING DATE: 14-FEB-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Trecartin, Richard P.
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-59515/RFT/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 582 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

Query Match 40.8%; Score 42; DB 3; Length 582;
Best Local Similarity 41.7%; Pred. No. 2.4e+02;
Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC 12

Db 322 DWLCKMSRNECF 333

RESULT 9
US-09-337-227C-27

```

Patent No. 6420518
GENERAL INFORMATION:
APPLICANT: Chen, Yvonne May-Yee
APPLICANT: Clark, Ross G.
APPLICANT: Cochran, Andrea G.
APPLICANT: Lowman, Henry B.
APPLICANT: Robinson, Iain C.A.F.
APPLICANT: Skelton, Nicholas J.
TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
FILE REFERENCE: P107112.rey
CURRENT APPLICATION NUMBER: US/09/337,227C
CURRENT FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 09/052,888
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: US 08/825,852
PRIOR FILING DATE: 1997-04-04
NUMBER OF SEQ ID NOS: 51
SEQ ID NO 27
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Sequence is synthesized
Patent No. 6420518
US-09-337-227C-27

```

Query Match	39.8%;	Score 41;	DB 4;	Length 21
Best Local Similarity	35.7%;	Pred. No. 11;		
Matches	5;	Conservative	2;	Mismatches 7; Indels

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QY      2 WICNLFKNQWFCNE 15
        | : | | | :
Db      3 WVCRAGPLQWLCEK 16
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```

RESULT 10
US-09-723-251A-27
: Sequence 27, Application US/09723251A
: Patent No. 6608028
: GENERAL INFORMATION:
: APPLICANT: Chen, Yvonne May-Yee
: APPLICANT: Clark, Ross G.
: APPLICANT: Cochran, Andrea G.
: APPLICANT: Lowman, Henry B.
: APPLICANT: Robinson, Iain C.A.F.
: APPLICANT: Skelton, Nicholas J.
: TITLE OF INVENTION: INSULIN-LIKE GROWTH FAC-
: FILE REFERENCE: PI071P2C1.2rev
: CURRENT APPLICATION NUMBER: US/09/723,251A
: PENDING FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: US 09/337,227
: PRIOR FILING DATE: 1999-06-22
: PRIOR APPLICATION NUMBER: US 08/825,852
: PRIOR FILING DATE: 1997-04-04
: NUMBER OF SEQ ID NOS: 51
: SEQ ID NO 27
: LENGTH: 21
: TYPE: PRT
: ORGANISM: Artificial sequence
: FEATURE:
: OTHER INFORMATION: Sequence is synthesized
US-09-723-251A-27

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Query Match	39.8%	Score 41	DB 4	Length 21	
Best Local Similarity	35.7%	Pred. No. 11			
Matches	5	Conservative	2	Mismatches	7
				Indels	0
				Gaps	0

QY	2	WICNLFXNQWFCNE	15
		:	:
DB	3	WVCRAGPLQWLCEK	16

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11 RESULT 11
12 US-09-107-532A-5966
13 ; Sequence 5966, Application US/09107532A
14 ; Patent No. 6583275
15 ; GENERAL INFORMATION:
16 ; APPLICANT: Lynn A Doucette-Stamm and David Bush
17 ; TITLE OF INVENTION: NOCLETIC ACID AND AMINO ACID SEQUENCES RELATING TO
18 ; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
19 ;
20 ; NUMBER OF SEQUENCES: 7310
21 ; CORRESPONDENCE ADDRESS:
22 ; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
23 ; STREET: 100 Beaver Street
24 ; CITY: Waltham
25 ; STATE: Massachusetts
26 ; COUNTRY: USA
27 ; ZIP: 02354
28 ;
29 ; COMPUTER READABLE FORM:
30 ; MEDIUM TYPE: CD-ROM ISO9660
31 ; COMPUTER: PC
32 ; OPERATING SYSTEM: <Unknown>
33 ; SOFTWARE: ASCII
34 ;
35 ; CURRENT APPLICATION DATA:
36 ; APPLICATION NUMBER: US/09/107,532A
37 ; FILING DATE: 30-Jun-1998
38 ;
39 ; PRIOR APPLICATION DATA:
40 ; APPLICATION NUMBER: 60/085,598
41 ; FILING DATE: 14 May 1998
42 ; APPLICATION NUMBER: 60/051571
43 ; FILING DATE: July 2, 1997
44 ;
45 ; ATTORNEY/AGENT INFORMATION:
46 ; NAME: Arinietello, Pamela Deneke
47 ; REGISTRATION NUMBER: 40,489
48 ; REFERENCE/DOCKET NUMBER: GTC-012
49 ; TELECOMMUNICATION INFORMATION:
50 ; TELEPHONE: (781)893-5007
51 ; TELEFAX: (781)893-8277
52 ;
53 ; INFORMATION FOR SEQ ID NO: 5966:
54 ;
55 ; SEQUENCE CHARACTERISTICS:
56 ; LENGTH: 1049 amino acids
57 ; TYPE: amino acid
58 ; TOPOLOGY: linear
59 ; MOLECULE TYPE: protein
60 ; HYPOTHETICAL: YES
61 ;
62 ; ORIGINAL SOURCE:
63 ; ORGANISM: Enterococcus faecium
64 ;
65 ; FEATURE:
66 ; NAME/KEY: misc feature
67 ; LOCATION: (B) LOCATION 1...1049
68 ;
69 ; SEQUENCE DESCRIPTION: SEQ ID NO: 5966:
70
71 US-09-107-532A-5966

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Query Match	39.8%;	Score 41;	DB 4;	Length 1049;
Best Local Similarity	40.0%;	Pred. No. 6e+02;		
Matches	6;	Conservative	5;	Mismatches 4;
				Indels 0;
				Gaps 0;

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QY      1 DWICNLFKNQWFCNE 15
        | : : | | : | : |
Db      967 DDLIHVFSNEWVSE 981
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RESULT 12
US-09-530-903C-4
; Sequence 4, Application US/09530903C
; Patent No. 6528285
; GENERAL INFORMATION:
; APPLICANT: BIET, Franck
; APPLICANT: CENATIEMPO, Yves


```

; APPLICANT: FREMAUX, Christophe
; TITLE OF INVENTION: NON RCR LEUCONOSTOC PLASMID CAPABLE OF BEING TRANSFERRED
; FILE REFERENCE: 004900-178
; CURRENT APPLICATION NUMBER: US/09/530,903C
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: PCT/FR98/02341
; PRIOR FILING DATE: 1998-11-02
; PRIOR APPLICATION NUMBER: FR 97 13 977
; PRIOR FILING DATE: 1997-11-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Leuconostoc mesenteroides
; US-09-530-903C-4

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Query Match      39.3%; Score 40.5; DB 4; Length 113;
Best Local Similarity 41.2%; Pred. No. 74;
Matches 7; Conservative 3; Mismatches 4; Indels 3; Gaps 1;

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QY 1 DMICLFFKQ--WECN 14
Db 34 DMVKCFENNTMTWYDN 50

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```

RESULT 13
US-09-328-352-7525
; Sequence 7525, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Bretton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7525
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
; US-09-328-352-7525

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Query Match      38.8%; Score 40; DB 4; Length 70;
Best Local Similarity 61.5%; Pred. No. 54;
Matches 8; Conservative 1; Mismatches 2; Indels 2; Gaps 1;

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QY 4 CNLFKNQW--FCN 14
Db 32 CNGFKLTYLFCN 44

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RESULT 14
US-09-489-039A-10753
; Sequence 10753, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Bretton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709,2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 10753
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
; US-09-489-039A-10753

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Best Local Similarity 54.5%; Pred. No. 1e+02;
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QY 6 LFKNQWFCNEA 16
Db 17 LFKTWFAREA 27

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RESULT 15
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; Sequence 4566, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucelte-Stamm et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4566
; LENGTH: 251
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
; US-09-134-000C-4566

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Query Match      38.8%; Score 40; DB 4; Length 251;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY 7 FKNQWFCNE 15
Db 132 FKRRWFANE 140

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Search completed: September 8, 2004, 12:58:28
Job time : 13.2 secs

